












Fill in the gaps

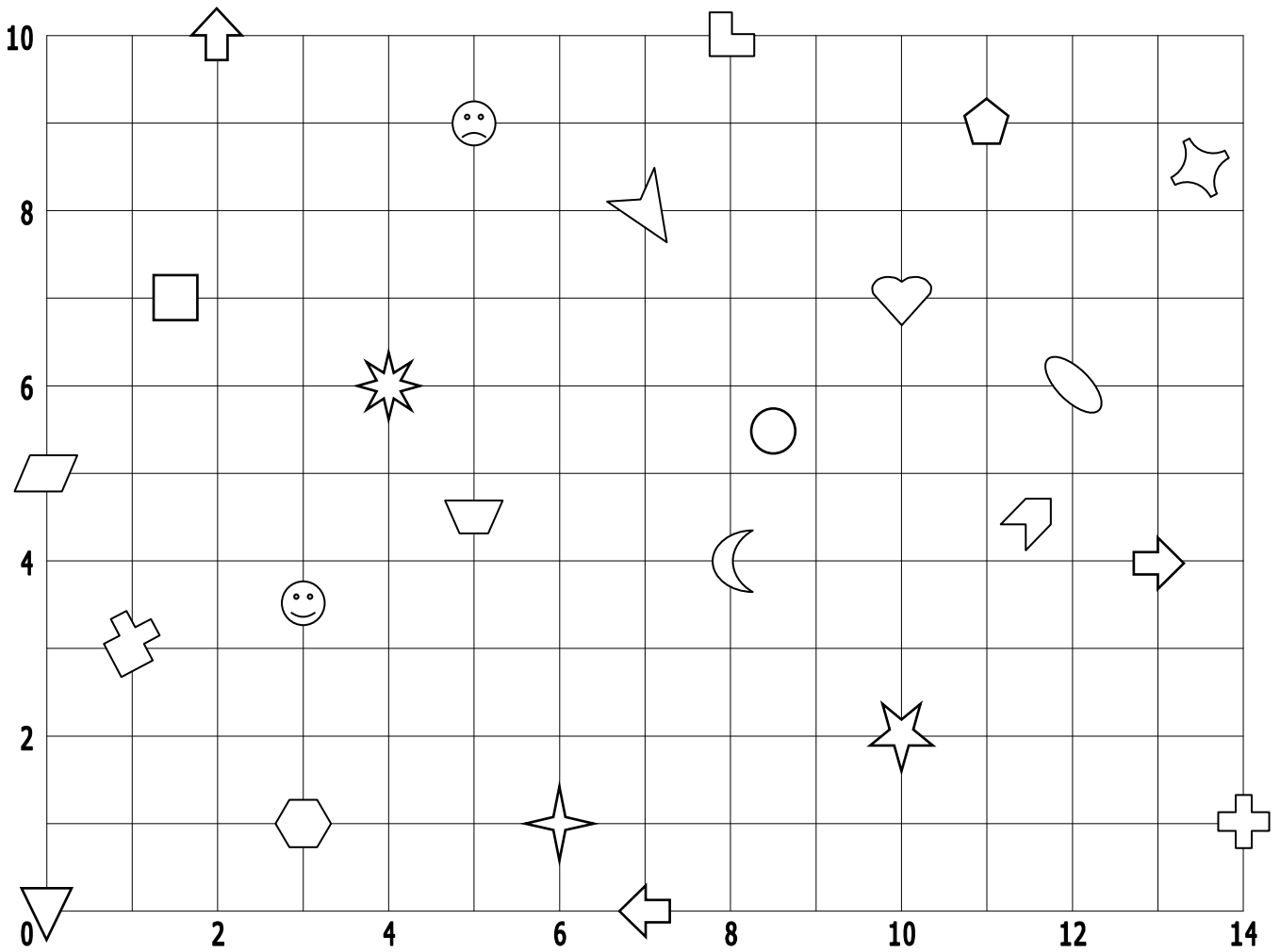
REMEMBER- you crawl before you climb (think of snakes and ladders)

	(4, 6)
	(7, 8)
	
	(10, 7)
	
	(8, 4)
	
	(6, 1)

	(5, 9)
	
	
	(12, 6)
	(0, 5)
	
	(0, 0)
	









	
	(2, 10)
	
	(3, 3½)
	(11½, 4½)
	
	(8½, 5½)
	(1½, 7)









Coordinates (1)











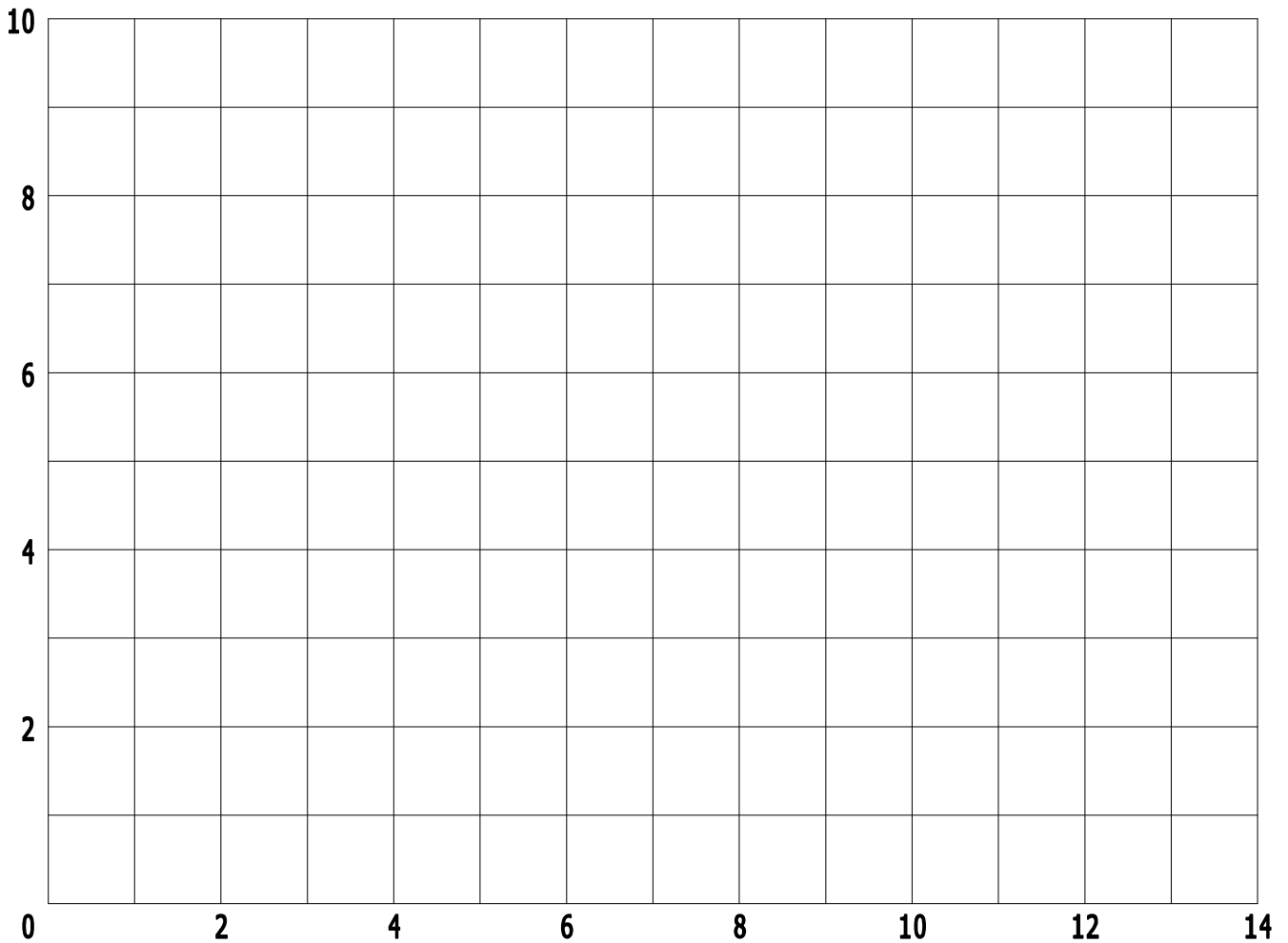
Fill in the gaps

REMEMBER- you crawl before you climb (think of snakes and ladders)

	(4, 6)
	(7, 8)
	(3, 1)
	(10, 7)
	(10, 2)
	(8, 4)
	(13, 4)
	(6, 1)

	(5, 9)
	(11, 9)
	(8, 10)
	(12, 6)
	(0, 5)
	(7, 0)
	(0, 0)
	(14, 1)

	(5, 4½)
	(2, 10)
	(13½, 8½)
	(3, 3½)
	(11½, 4½)
	(1, 3)
	(8½, 5½)
	(1½, 7)



- Plot the points on the grid above using the coordinates below.
- Using a ruler, join them up as you go to make 8 separate shapes.

Shape A

(3, 7)
 (3, 5)
 (5, 5)
 (5, 7)
 (3, 7)

Shape C

(7, 4)
 (9, 5)
 (11, 4)
 (9, 3)
 (7, 4)

Shape E

(11, 0)
 (12, 2)
 (14, 2)
 (13, 0)
 (11, 0)

Shape G

(0, 8)
 (0, 10)
 (3, 10)
 (0, 8)

Shape B

(8, 10)
 (8, 7)
 (9, 7)
 (9, 10)
 (8, 10)

Shape D

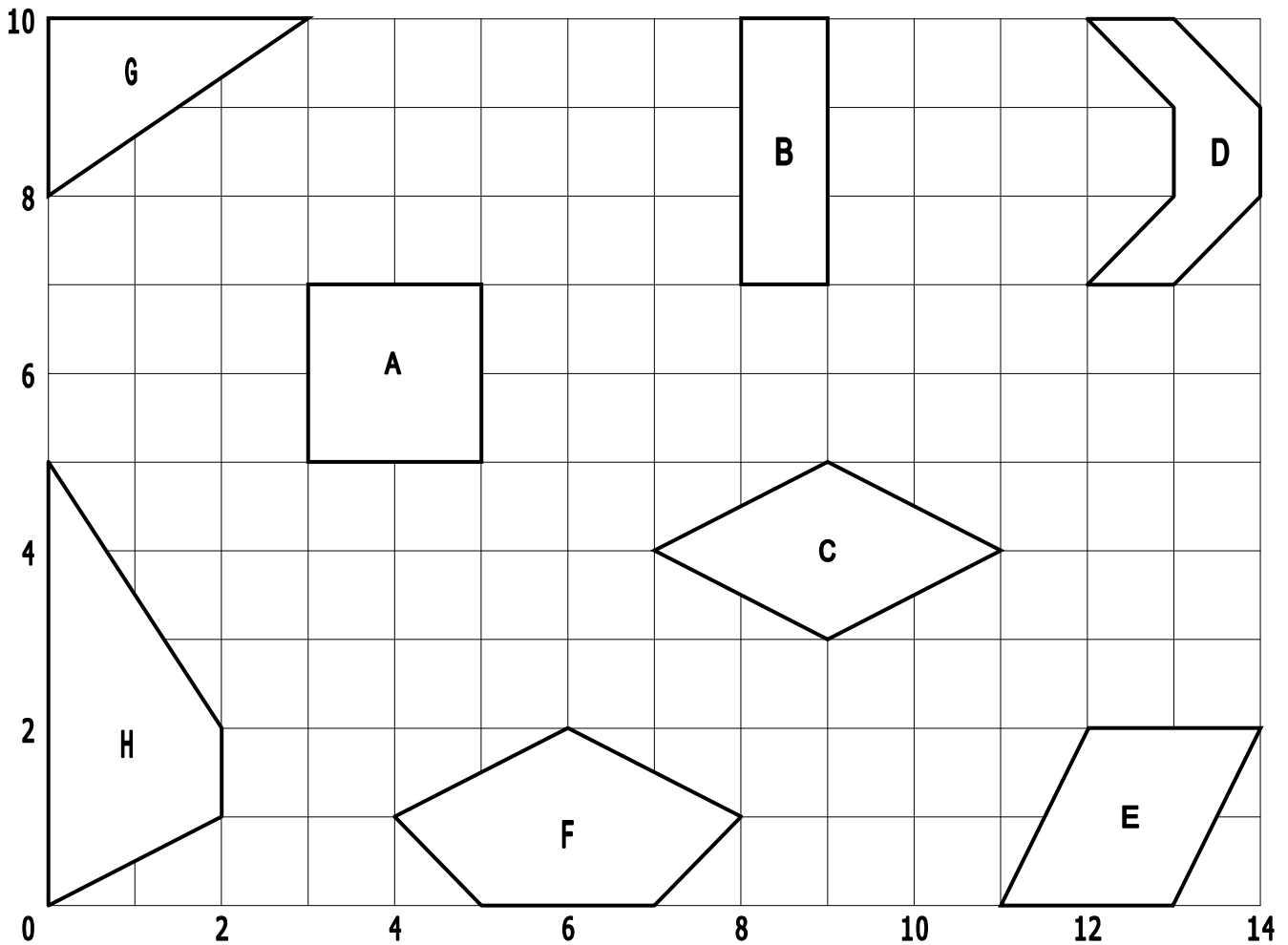
(12, 7)
 (13, 7)
 (14, 8)
 (14, 9)
 (13, 10)
 (12, 10)
 (13, 9)
 (13, 8)
 (12, 7)

Shape F

(7, 0)
 (5, 0)
 (4, 1)
 (6, 2)
 (8, 1)
 (7, 0)

Shape H

(2, 2)
 (0, 5)
 (0, 0)
 (2, 1)
 (2, 2)



- Plot the points on the grid above using the coordinates below.
- Using a ruler, join them up as you go to make 8 separate shapes.

Shape A

(3, 7)
(3, 5)
(5, 5)
(5, 7)
(3, 7)

Shape C

(7, 4)
(9, 5)
(11, 4)
(9, 3)
(7, 4)

Shape E

(11, 0)
(12, 2)
(14, 2)
(13, 0)
(11, 0)

Shape G

(0, 8)
(0, 10)
(3, 10)
(0, 8)

Shape B

(8, 10)
(8, 7)
(9, 7)
(9, 10)
(8, 10)

Shape D

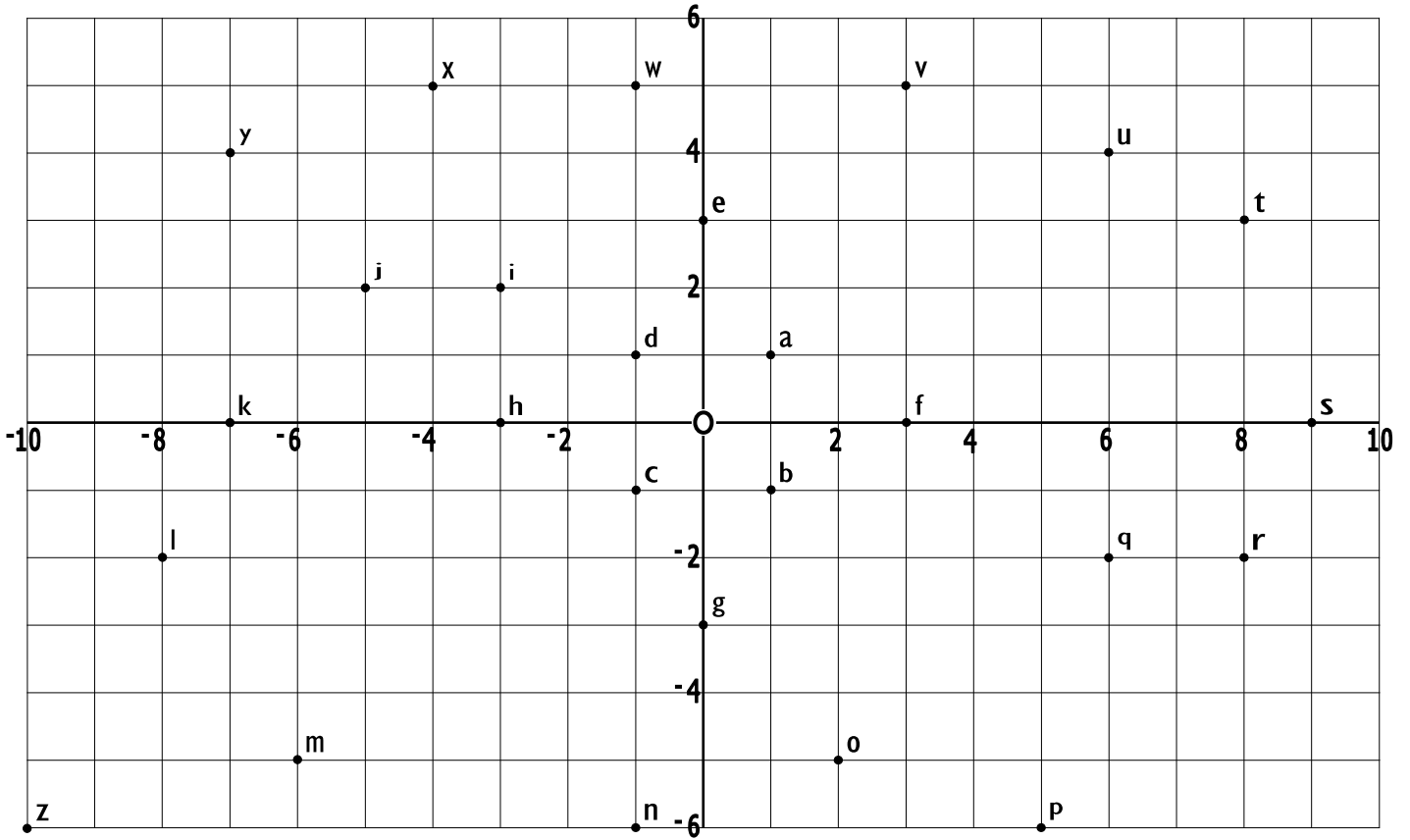
(12, 7)
(13, 7)
(14, 8)
(14, 9)
(13, 10)
(12, 10)
(13, 9)
(13, 8)
(12, 7)

Shape F

(7, 0)
(5, 0)
(4, 1)
(6, 2)
(8, 1)
(7, 0)

Shape H

(2, 2)
(0, 5)
(0, 0)
(2, 1)
(2, 2)



Fill in the gaps



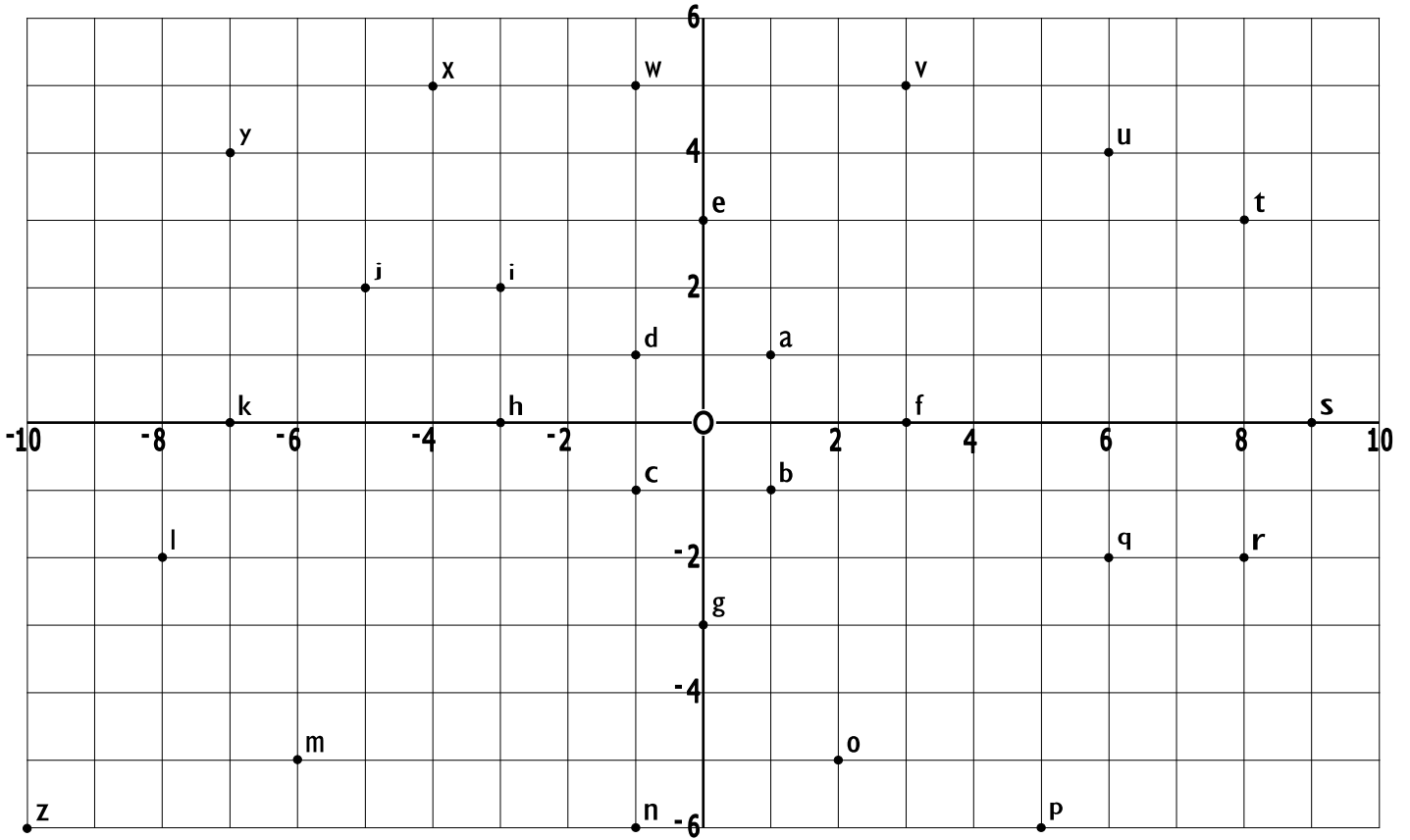
a (1, 1)

b (1, -1)

c	
d	
e	
f	
g	
h	
i	
j	

k	
l	
m	
n	
o	
p	
q	
r	

s	
t	
u	
v	
w	
x	
y	
z	



Fill in the gaps



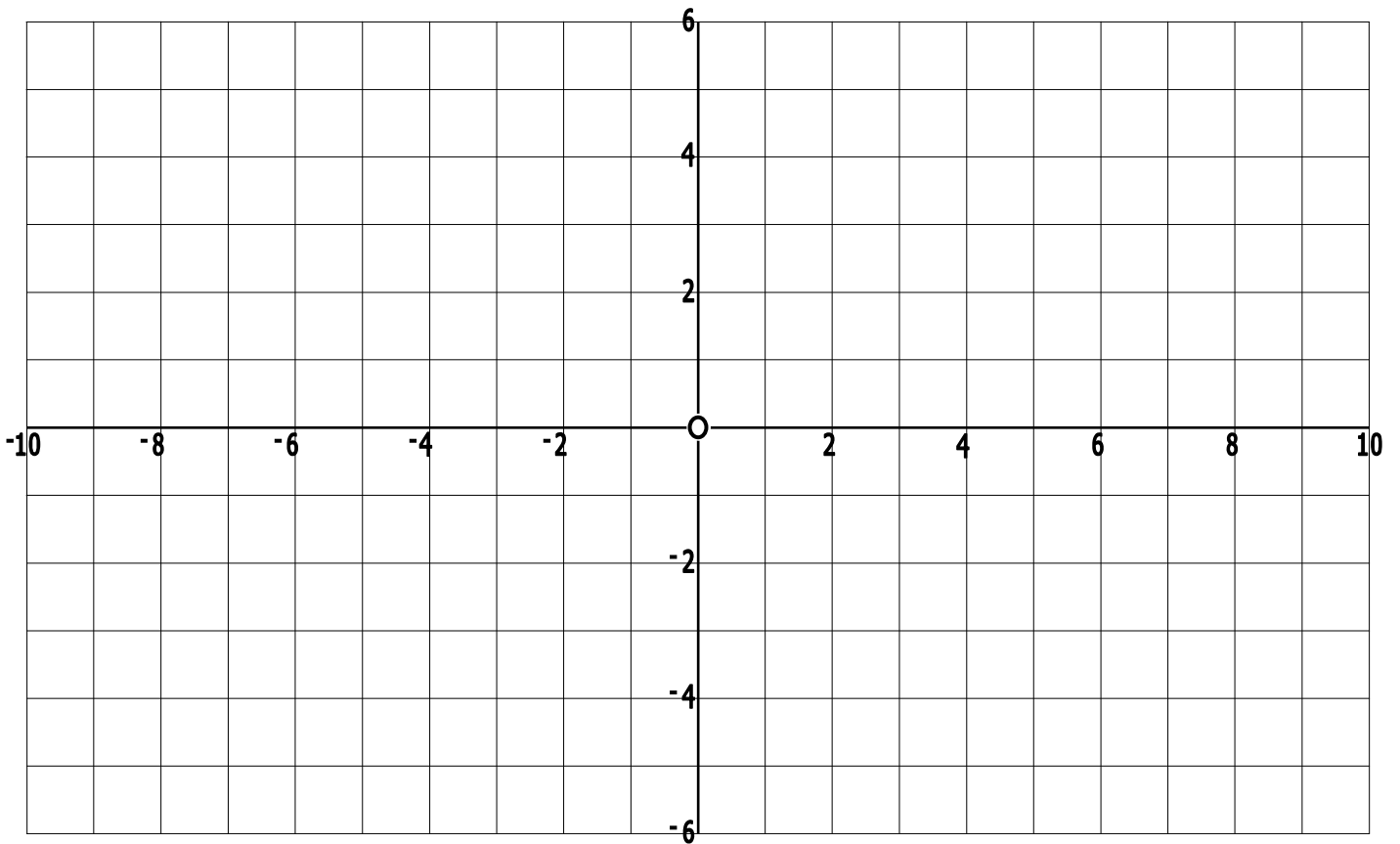
a (1, 1)

b (1, -1)

c	(-1, -1)
d	(-1, 1)
e	(0, 3)
f	(3, 0)
g	(0, -3)
h	(-3, 0)
i	(-3, 2)
j	(-5, 2)

k	(-7, 0)
l	(-8, -2)
m	(-6, -5)
n	(-1, -6)
o	(2, -5)
p	(5, -6)
q	(6, -2)
r	(8, -2)

s	(9, 0)
t	(8, 3)
u	(6, 4)
v	(3, 5)
w	(-1, 5)
x	(-4, 5)
y	(-5, 4)
z	(-10, -6)



- Plot the points on the grid above using the coordinates below.
- Using a ruler, join them up as you go to make 6 separate shapes.

Shape A

(-6, 2)
 (-6, 5)
 (-1, 6)
 (-6, 2)

Shape C

(3, 3)
 (5, 6)
 (7, 3)
 (5, 3)
 (3, 3)

Shape E

(9, -5)
 (4, -6)
 (4, -3)
 (9, 1)
 (9, -5)

Shape B

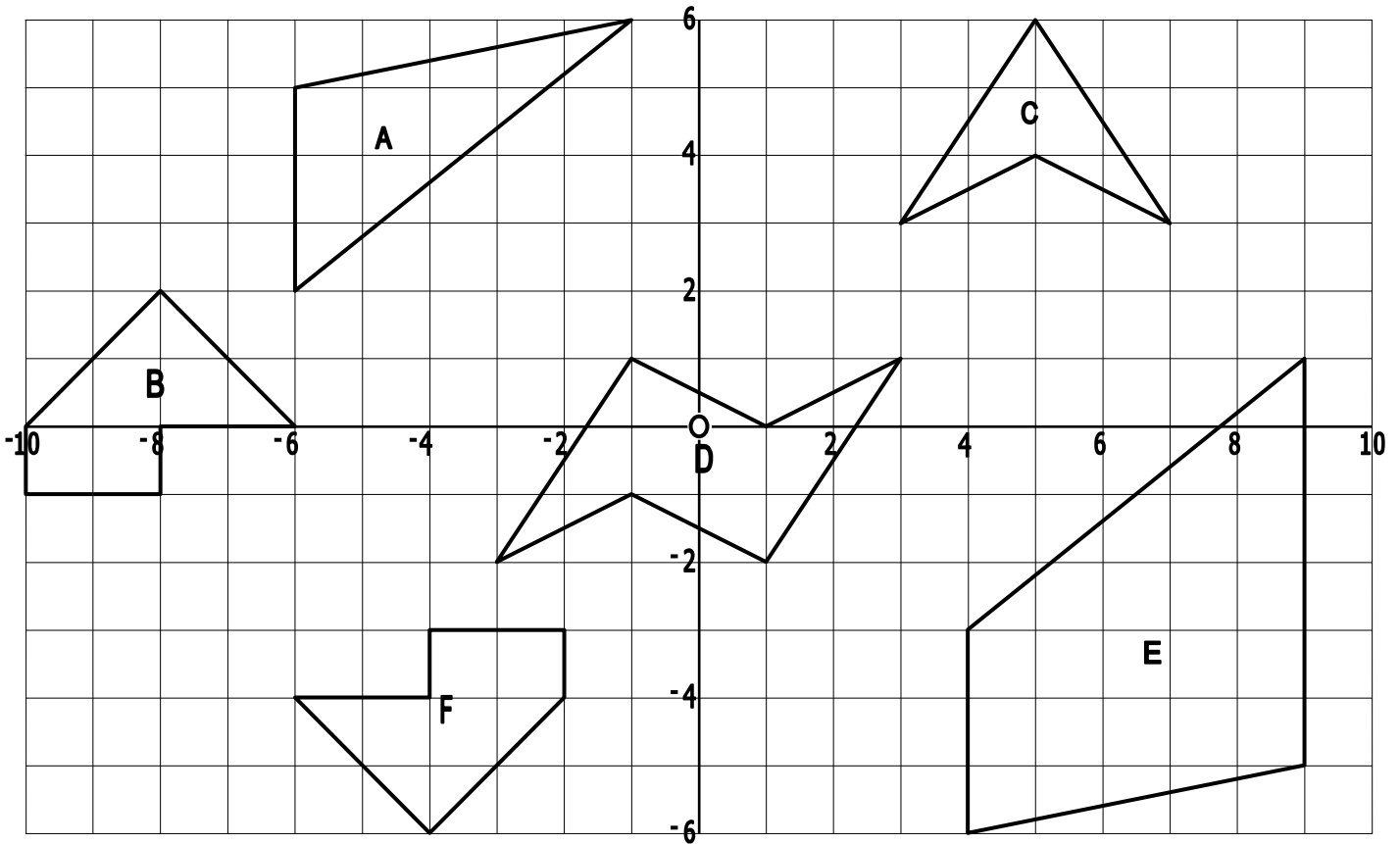
(-8, 2)
 (-6, 0)
 (-8, 0)
 (-8, -1)
 (-10, -1)
 (-10, 0)
 (-8, 2)

Shape D

(3, 1)
 (1, 0)
 (-1, 1)
 (-3, -2)
 (-1, -1)
 (1, -2)
 (3, 1)

Shape F

(-6, -4)
 (-4, -6)
 (-2, -4)
 (-2, -3)
 (-4, -3)
 (-4, -4)
 (-6, -4)



- Plot the points on the grid above using the coordinates below.
- Using a ruler, join them up as you go to make 6 separate shapes.

Shape A

(-6, 2)
 (-6, 5)
 (-1, 6)
 (-6, 2)

Shape C

(3, 3)
 (5, 6)
 (7, 3)
 (5, 3)
 (3, 3)

Shape E

(9, -5)
 (4, -6)
 (4, -3)
 (9, 1)
 (9, -5)

Shape B

(-8, 2)
 (-6, 0)
 (-8, 0)
 (-8, -1)
 (-10, -1)
 (-10, 0)
 (-8, 2)

Shape D

(3, 1)
 (1, 0)
 (-1, 1)
 (-3, -2)
 (-1, -1)
 (1, -2)
 (3, 1)

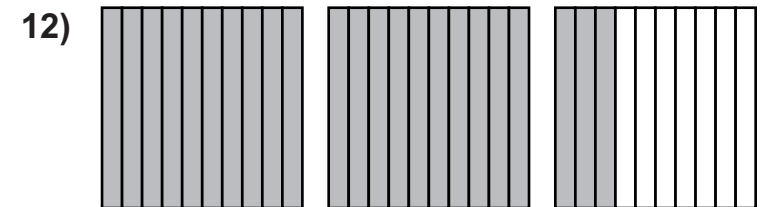
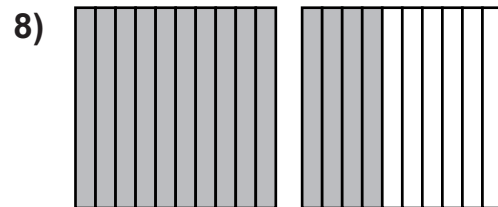
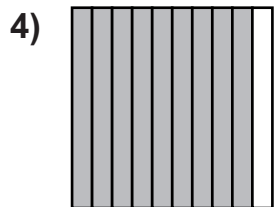
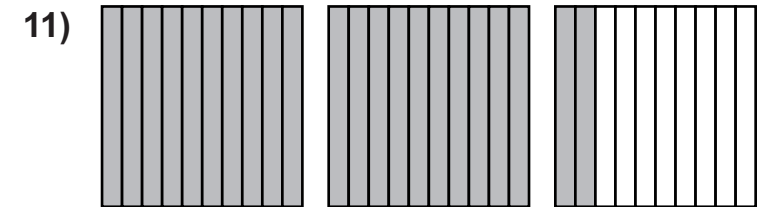
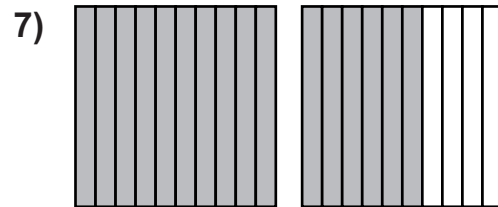
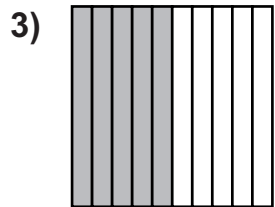
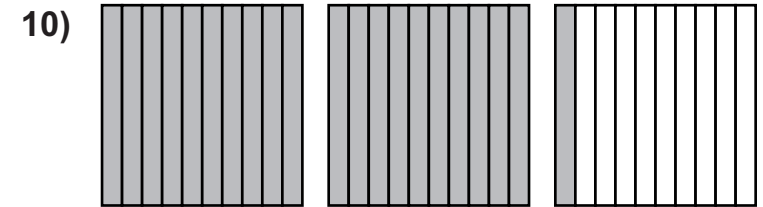
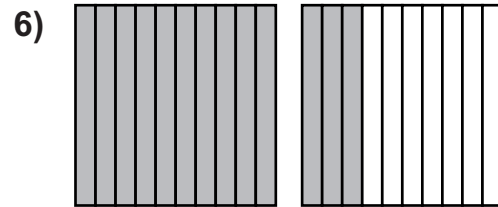
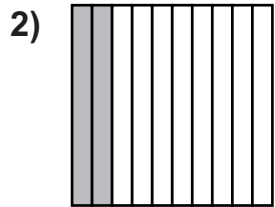
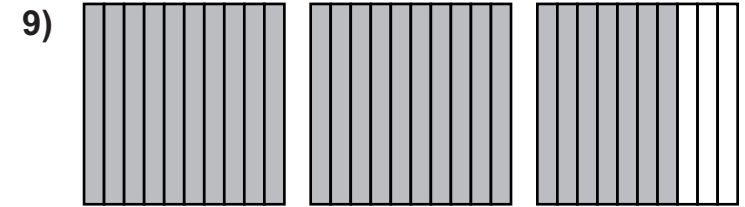
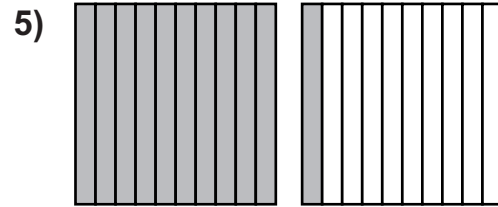
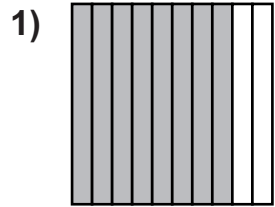
Shape F

(-6, -4)
 (-4, -6)
 (-2, -4)
 (-2, -3)
 (-4, -3)
 (-4, -4)
 (-6, -4)

Decimal Squares

If each shaded square is worth 1, which decimal numbers are represented by the following illustrations?

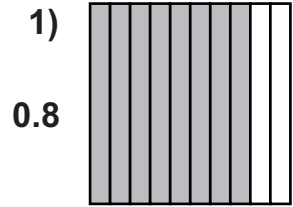
1) 0.8



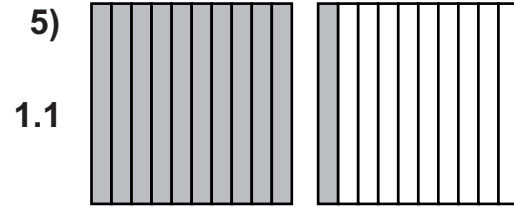
Decimal Squares

If each shaded square is worth 1, which decimal numbers are represented by the following illustrations?

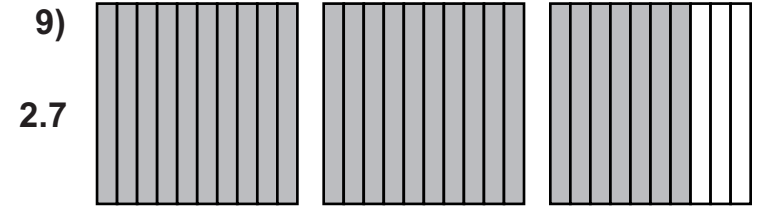
1) 0.8



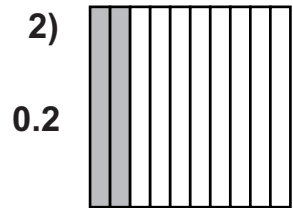
0.8



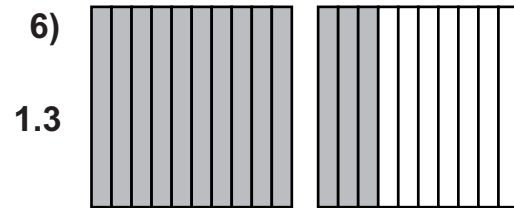
1.1



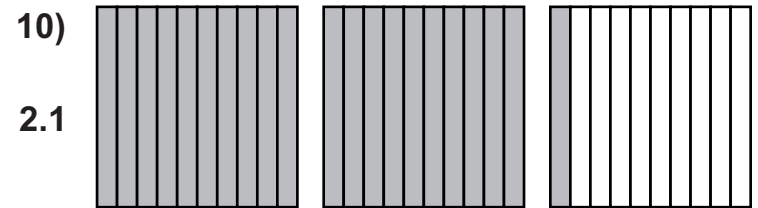
2.7



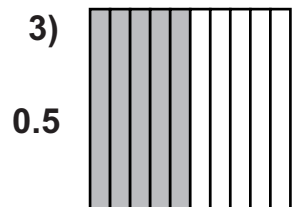
0.2



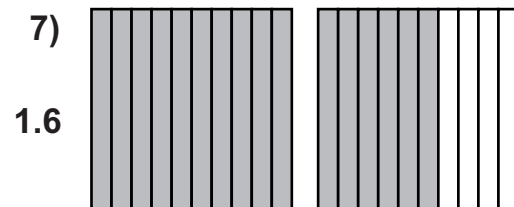
1.3



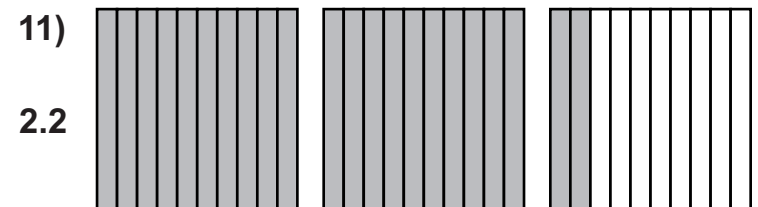
2.1



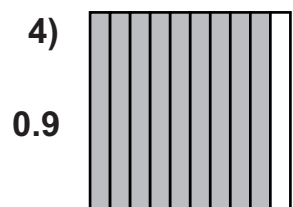
0.5



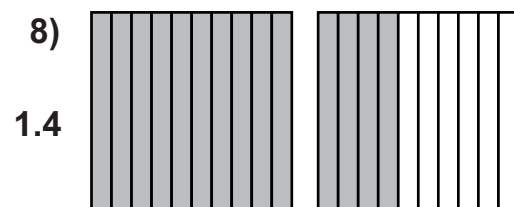
1.6



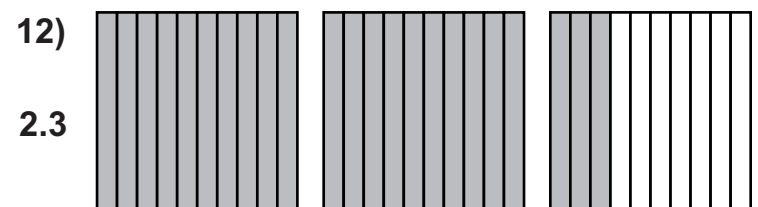
2.2



0.9



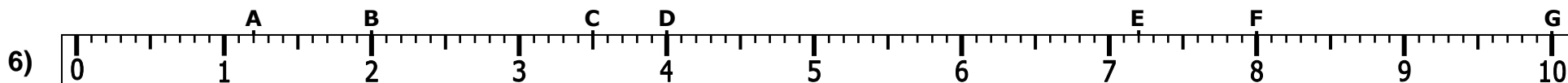
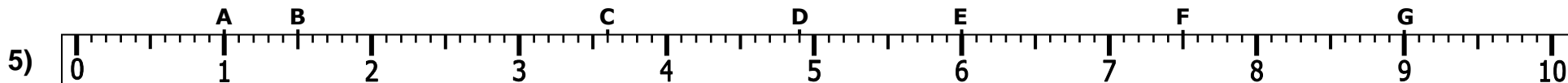
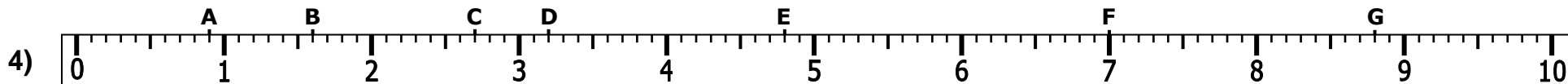
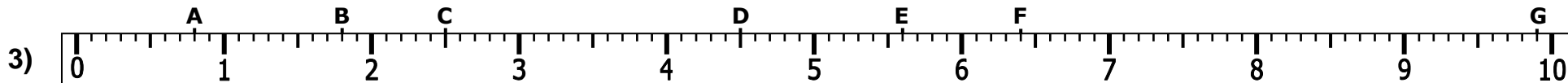
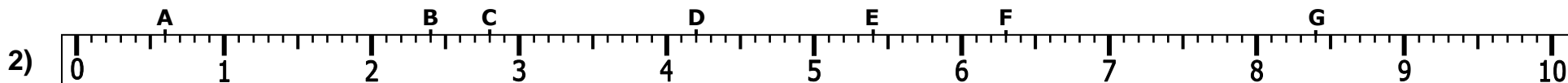
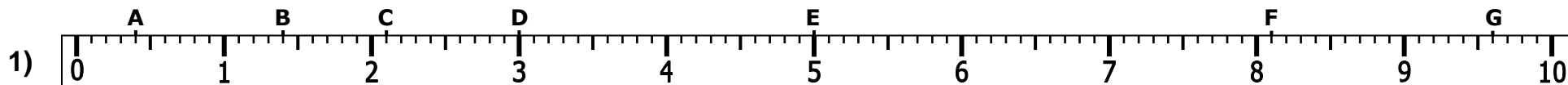
1.4



2.3



1A) 0.4



1A) 0.4**B) 1.4****C) 2.1****D) 3.0****E) 5.0****F) 8.1****G) 9.6**

2A) 0.6**B) 2.4****C) 2.8****D) 4.2****E) 5.4****F) 6.3****G) 8.4**

3A) 0.8**B) 1.8****C) 2.5****D) 4.5****E) 5.6****F) 6.4****G) 9.9**

4A) 0.9**B) 1.6****C) 2.7****D) 3.2****E) 4.8****F) 7.0****G) 8.8**

5A) 1.0**B) 1.5****C) 3.6****D) 4.9****E) 6.0****F) 7.5****G) 9.0**

6A) 1.2**B) 2.0****C) 3.5****D) 4.0****E) 7.2****F) 8.0****G) 10.0**

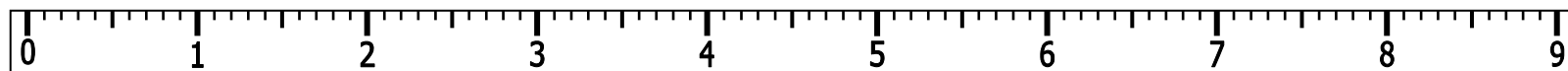
 **Decimal Number Lines 2** 

Mark each value on the number lines 1A) has been done as an example

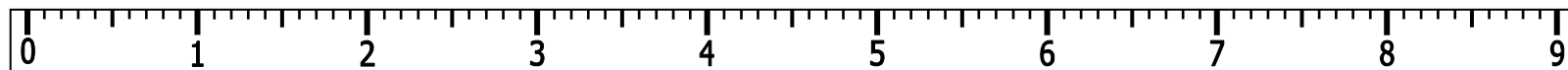
- 1 A) 1.2 B) 2.0 C) 3.1**
D) 4.5 E) 5.4 F) 7.6



- 2 A) 0.4 B) 1.5 C) 3.7**
D) 4.3 E) 5.0 F) 8.1



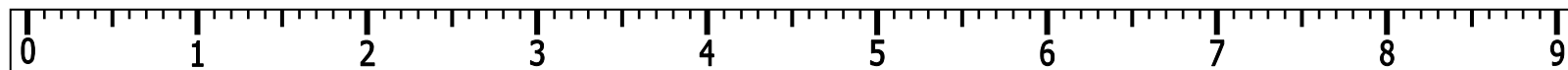
- 3 A) 0.6 B) 1.3 C) 2.1**
D) 3.4 E) 6.2 F) 7.5



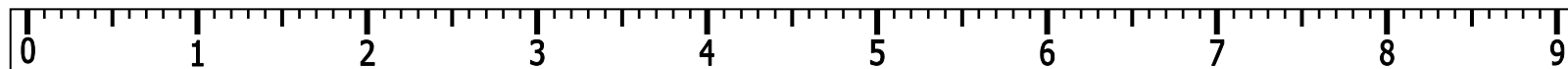
- 4 A) 0.9 B) 1.7 C) 2.6**
D) 3.2 E) 4.0 F) 6.6



- 5 A) 0.2 B) 2.9 C) 5.9**
D) 6.8 E) 7.9 F) 8.6



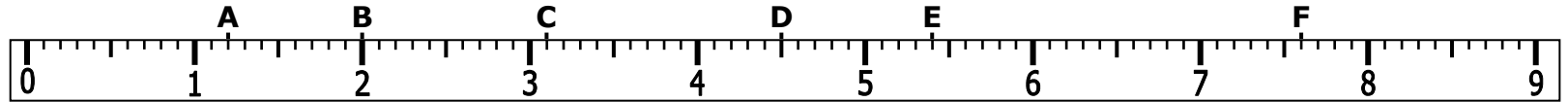
- 6 A) 4.8 B) 5.1 C) 6.5**
D) 7.7 E) 8.3 F) 9.0



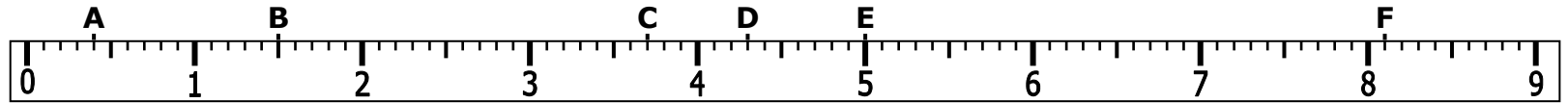
◊ Decimal Number Lines 2 ◻

Mark each value on the number lines 1A) has been done as an example

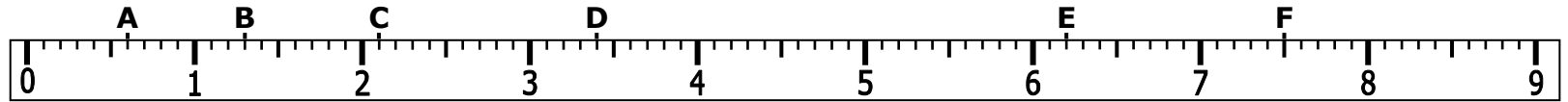
- 1 A) 1.2 B) 2.0 C) 3.1
D) 4.5 E) 5.4 F) 7.6



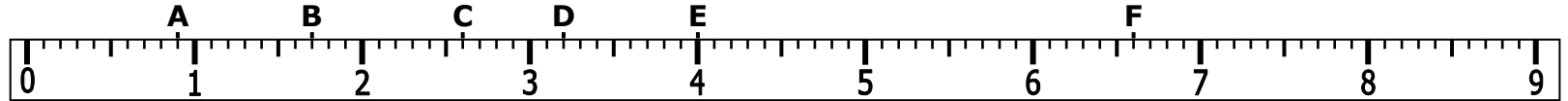
- 2 A) 0.4 B) 1.5 C) 3.7
D) 4.3 E) 5.0 F) 8.1



- 3 A) 0.6 B) 1.3 C) 2.1
D) 3.4 E) 6.2 F) 7.5



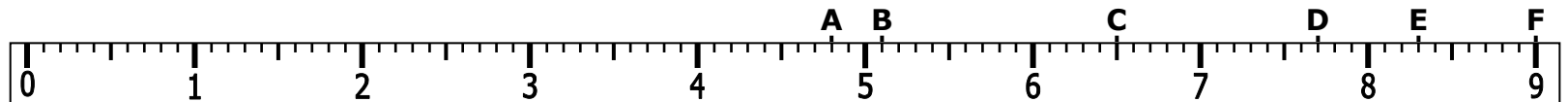
- 4 A) 0.9 B) 1.7 C) 2.6
D) 3.2 E) 4.0 F) 6.6



- 5 A) 0.2 B) 2.9 C) 5.9
D) 6.8 E) 7.9 F) 8.6



- 6 A) 4.8 B) 5.1 C) 6.5
D) 7.7 E) 8.3 F) 9.0





- | | | |
|-------------------|-------------------|-------------------|
| 1) $0.3 + 1.3 =$ | 16) $3.1 + 0.3 =$ | 31) $5.5 + 0.5 =$ |
| 2) $0.7 + 2.5 =$ | 17) $0.4 + 4.3 =$ | 32) $6.1 + 0.7 =$ |
| 3) $6.1 + 0.4 =$ | 18) $8.6 + 0.7 =$ | 33) $0.5 + 4.2 =$ |
| 4) $0.8 + 7.1 =$ | 19) $0.6 + 1.4 =$ | 34) $5.2 + 0.5 =$ |
| 5) $0.9 + 8.3 =$ | 20) $0.8 + 1.2 =$ | 35) $0.6 + 4.2 =$ |
| 6) $4.7 + 0.9 =$ | 21) $5.7 + 0.9 =$ | 36) $0.7 + 8.4 =$ |
| 7) $0.4 + 6.2 =$ | 22) $2.4 + 0.6 =$ | 37) $9.6 + 0.8 =$ |
| 8) $0.6 + 5.3 =$ | 23) $0.7 + 2.2 =$ | 38) $0.4 + 5.2 =$ |
| 9) $7.8 + 0.8 =$ | 24) $0.2 + 2.1 =$ | 39) $6.2 + 0.3 =$ |
| 10) $0.9 + 9.9 =$ | 25) $6.3 + 0.6 =$ | 40) $0.7 + 7.6 =$ |
| 11) $3.5 + 0.6 =$ | 26) $0.6 + 5.2 =$ | 41) $5.4 + 0.5 =$ |
| 12) $0.8 + 8.6 =$ | 27) $4.4 + 0.5 =$ | 42) $0.9 + 6.1 =$ |
| 13) $0.7 + 3.2 =$ | 28) $6.8 + 0.8 =$ | 43) $5.4 + 0.8 =$ |
| 14) $0.8 + 5.7 =$ | 29) $0.9 + 2.6 =$ | 44) $0.9 + 1.6 =$ |
| 15) $2.7 + 0.7 =$ | 30) $5.5 + 0.8 =$ | 45) $6.6 + 0.6 =$ |

Fill in the gaps

- | | | |
|----------------------------|---------------------------|---------------------------|
| 1) $\square + 7.4 = 7.8$ | 11) $\square + 0.5 = 8.8$ | 21) $4.1 + \square = 4.6$ |
| 2) $2.4 + \square = 3.3$ | 12) $\square + 0.8 = 3$ | 22) $2.1 + \square = 2.2$ |
| 3) $\square + 5.5 = 6.4$ | 13) $2.3 + \square = 3.1$ | 23) $0.8 + \square = 4.1$ |
| 4) $9.2 + \square = 9.4$ | 14) $\square + 9.1 = 9.7$ | 24) $\square + 0.7 = 4$ |
| 5) $\square + 0.4 = 5.7$ | 15) $\square + 0.8 = 5.3$ | 25) $0.5 + \square = 9.8$ |
| 6) $0.3 + \square = 7.5$ | 16) $7.1 + \square = 8$ | 26) $\square + 7.6 = 8.2$ |
| 7) $0.2 + \square = 1.3$ | 17) $\square + 6.4 = 6.8$ | 27) $4.4 + \square = 5.2$ |
| 8) $\square + 0.3 = 2.6$ | 18) $0.1 + \square = 3.2$ | 28) $\square + 3.2 = 4.1$ |
| 9) $\square + 0.5 = 7$ | 19) $\square + 0.9 = 9.7$ | 29) $\square + 8.1 = 8.9$ |
| 10) $\square + 9.4 = 10.1$ | 20) $\square + 5.1 = 5.5$ | 30) $0.9 + \square = 8.2$ |



- | | | |
|------------------------|-----------------------|------------------------|
| 1) $0.3 + 1.3 = 1.6$ | 16) $3.1 + 0.3 = 3.4$ | 31) $5.5 + 0.5 = 6$ |
| 2) $0.7 + 2.5 = 3.2$ | 17) $0.4 + 4.3 = 4.7$ | 32) $6.1 + 0.7 = 6.8$ |
| 3) $6.1 + 0.4 = 6.5$ | 18) $8.6 + 0.7 = 9.3$ | 33) $0.5 + 4.2 = 4.7$ |
| 4) $0.8 + 7.1 = 7.9$ | 19) $0.6 + 1.4 = 2$ | 34) $5.2 + 0.5 = 5.7$ |
| 5) $0.9 + 8.3 = 9.2$ | 20) $0.8 + 1.2 = 2$ | 35) $0.6 + 4.2 = 4.8$ |
| 6) $4.7 + 0.9 = 5.6$ | 21) $5.7 + 0.9 = 6.6$ | 36) $0.7 + 8.4 = 9.1$ |
| 7) $0.4 + 6.2 = 6.6$ | 22) $2.4 + 0.6 = 3$ | 37) $9.6 + 0.8 = 10.4$ |
| 8) $0.6 + 5.3 = 5.9$ | 23) $0.7 + 2.2 = 2.9$ | 38) $0.4 + 5.2 = 5.6$ |
| 9) $7.8 + 0.8 = 8.6$ | 24) $0.2 + 2.1 = 2.3$ | 39) $6.2 + 0.3 = 6.5$ |
| 10) $0.9 + 9.9 = 10.8$ | 25) $6.3 + 0.6 = 6.9$ | 40) $0.7 + 7.6 = 8.3$ |
| 11) $3.5 + 0.6 = 4.1$ | 26) $0.6 + 5.2 = 5.8$ | 41) $5.4 + 0.5 = 5.9$ |
| 12) $0.8 + 8.6 = 9.4$ | 27) $4.4 + 0.5 = 4.9$ | 42) $0.9 + 6.1 = 7$ |
| 13) $0.7 + 3.2 = 3.9$ | 28) $6.8 + 0.8 = 7.6$ | 43) $5.4 + 0.8 = 6.2$ |
| 14) $0.8 + 5.7 = 6.5$ | 29) $0.9 + 2.6 = 3.5$ | 44) $0.9 + 1.6 = 2.5$ |
| 15) $2.7 + 0.7 = 3.4$ | 30) $5.5 + 0.8 = 6.3$ | 45) $6.6 + 0.6 = 7.2$ |

Fill in the gaps

- | | | |
|--------------------------------|-------------------------------|-------------------------------|
| 1) $\boxed{0.4} + 7.4 = 7.8$ | 11) $\boxed{8.3} + 0.5 = 8.8$ | 21) $4.1 + \boxed{0.5} = 4.6$ |
| 2) $2.4 + \boxed{0.9} = 3.3$ | 12) $\boxed{2.2} + 0.8 = 3$ | 22) $2.1 + \boxed{0.1} = 2.2$ |
| 3) $\boxed{0.9} + 5.5 = 6.4$ | 13) $2.3 + \boxed{0.8} = 3.1$ | 23) $0.8 + \boxed{3.3} = 4.1$ |
| 4) $9.2 + \boxed{0.2} = 9.4$ | 14) $\boxed{0.6} + 9.1 = 9.7$ | 24) $\boxed{3.3} + 0.7 = 4$ |
| 5) $\boxed{5.3} + 0.4 = 5.7$ | 15) $\boxed{4.5} + 0.8 = 5.3$ | 25) $0.5 + \boxed{9.3} = 9.8$ |
| 6) $0.3 + \boxed{7.2} = 7.5$ | 16) $7.1 + \boxed{0.9} = 8$ | 26) $\boxed{0.6} + 7.6 = 8.2$ |
| 7) $0.2 + \boxed{1.1} = 1.3$ | 17) $\boxed{0.4} + 6.4 = 6.8$ | 27) $4.4 + \boxed{0.8} = 5.2$ |
| 8) $\boxed{2.3} + 0.3 = 2.6$ | 18) $0.1 + \boxed{3.1} = 3.2$ | 28) $\boxed{0.9} + 3.2 = 4.1$ |
| 9) $\boxed{6.5} + 0.5 = 7$ | 19) $\boxed{8.8} + 0.9 = 9.7$ | 29) $\boxed{0.8} + 8.1 = 8.9$ |
| 10) $\boxed{0.7} + 9.4 = 10.1$ | 20) $\boxed{0.4} + 5.1 = 5.5$ | 30) $0.9 + \boxed{7.3} = 8.2$ |



Adding decimals numbers | 2



$$\begin{array}{r} 1) \quad 57.5 \\ + \quad 31.2 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 6) \quad 67.1 \\ + \quad 55.9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 11) \quad 86.6 \\ + \quad 55.4 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 16) \quad 177.1 \\ + \quad 933.7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 21) \quad 486.8 \\ \quad 583.4 \\ + \quad 207.6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 2) \quad 38.1 \\ + \quad 32.6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 7) \quad 56.8 \\ + \quad 42.8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 12) \quad 75.7 \\ + \quad 12.7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 17) \quad 493.3 \\ + \quad 881.9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 22) \quad 144.9 \\ \quad 212.5 \\ + \quad 344.1 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 3) \quad 99.6 \\ + \quad 45.6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 8) \quad 69.9 \\ + \quad 11.6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 13) \quad 63.3 \\ + \quad 22.7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 18) \quad 243.4 \\ + \quad 621.9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 23) \quad 388.5 \\ \quad 621.1 \\ + \quad 141.7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 4) \quad 67.2 \\ + \quad 54.8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 9) \quad 98.4 \\ + \quad 54.8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 14) \quad 74.5 \\ + \quad 51.5 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 19) \quad 597.9 \\ + \quad 115.8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 24) \quad 738.1 \\ \quad 815.8 \\ + \quad 972.2 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 5) \quad 77.8 \\ + \quad 82.3 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 10) \quad 56.5 \\ + \quad 52.0 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 15) \quad 77.9 \\ + \quad 71.9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 20) \quad 348.6 \\ + \quad 741.2 \\ \hline \hline \end{array}$$



Round your answers to the nearest whole number

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Adding decimals numbers | 2



$$\begin{array}{r} 1) \quad 57.5 \\ + \quad 31.2 \\ \hline 88.7 \\ \hline \mathbf{89}^* \end{array}$$

$$\begin{array}{r} 6) \quad 67.1 \\ + \quad 55.9 \\ \hline 123.0 \end{array}$$

$$\begin{array}{r} 11) \quad 86.6 \\ + \quad 55.4 \\ \hline 142.0 \end{array}$$

$$\begin{array}{r} 16) \quad 177.1 \\ + \quad 933.7 \\ \hline 1110.8 \\ \hline \mathbf{1111}^* \end{array}$$

$$\begin{array}{r} 21) \quad 486.8 \\ \quad 583.4 \\ + \quad 207.6 \\ \hline 1277.8 \\ \hline \mathbf{1278}^* \end{array}$$

$$\begin{array}{r} 2) \quad 38.1 \\ + \quad 32.6 \\ \hline 70.7 \\ \hline \mathbf{71}^* \end{array}$$

$$\begin{array}{r} 7) \quad 56.8 \\ + \quad 42.8 \\ \hline 99.6 \\ \hline \mathbf{100}^* \end{array}$$

$$\begin{array}{r} 12) \quad 75.7 \\ + \quad 12.7 \\ \hline 88.4 \\ \hline \mathbf{88}^* \end{array}$$

$$\begin{array}{r} 17) \quad 493.3 \\ + \quad 881.9 \\ \hline 1375.2 \\ \hline \mathbf{1375}^* \end{array}$$

$$\begin{array}{r} 22) \quad 144.9 \\ \quad 212.5 \\ + \quad 344.1 \\ \hline 701.5 \\ \hline \mathbf{702}^* \end{array}$$

$$\begin{array}{r} 3) \quad 99.6 \\ + \quad 45.6 \\ \hline 145.2 \\ \hline \mathbf{145}^* \end{array}$$

$$\begin{array}{r} 8) \quad 69.9 \\ + \quad 11.6 \\ \hline 81.5 \\ \hline \mathbf{82}^* \end{array}$$

$$\begin{array}{r} 13) \quad 63.3 \\ + \quad 22.7 \\ \hline 86.0 \end{array}$$

$$\begin{array}{r} 18) \quad 243.4 \\ + \quad 621.9 \\ \hline 865.3 \\ \hline \mathbf{865}^* \end{array}$$

$$\begin{array}{r} 23) \quad 388.5 \\ \quad 621.1 \\ + \quad 141.7 \\ \hline 1151.3 \\ \hline \mathbf{1151}^* \end{array}$$

$$\begin{array}{r} 4) \quad 67.2 \\ + \quad 54.8 \\ \hline 122.0 \end{array}$$

$$\begin{array}{r} 9) \quad 98.4 \\ + \quad 54.8 \\ \hline 153.2 \\ \hline \mathbf{153}^* \end{array}$$

$$\begin{array}{r} 14) \quad 74.5 \\ + \quad 51.5 \\ \hline 126.0 \end{array}$$

$$\begin{array}{r} 19) \quad 597.9 \\ + \quad 115.8 \\ \hline 713.7 \\ \hline \mathbf{714}^* \end{array}$$

$$\begin{array}{r} 5) \quad 77.8 \\ + \quad 82.3 \\ \hline 160.1 \\ \hline \mathbf{160}^* \end{array}$$

$$\begin{array}{r} 10) \quad 56.5 \\ + \quad 52.0 \\ \hline 108.5 \\ \hline \mathbf{109}^* \end{array}$$

$$\begin{array}{r} 15) \quad 77.9 \\ + \quad 71.9 \\ \hline 149.8 \\ \hline \mathbf{150}^* \end{array}$$

$$\begin{array}{r} 20) \quad 348.6 \\ + \quad 741.2 \\ \hline 1089.8 \\ \hline \mathbf{1090}^* \end{array}$$

$$\begin{array}{r} 24) \quad 738.1 \\ \quad 815.8 \\ + \quad 972.2 \\ \hline 2526.1 \\ \hline \mathbf{2526}^* \end{array}$$

* answer rounded to the nearest whole number
Supplied by The NZ Centre of Mathematics



- | | | |
|-------------------|--------------------|--------------------|
| 1) $3.4 - 0.3 =$ | 16) $2.4 - 0.4 =$ | 31) $10.8 - 0.9 =$ |
| 2) $7.9 - 0.8 =$ | 17) $3.9 - 0.7 =$ | 32) $5.7 - 0.4 =$ |
| 3) $4.1 - 0.1 =$ | 18) $7.9 - 0.9 =$ | 33) $2.3 - 0.2 =$ |
| 4) $8.9 - 0.8 =$ | 19) $6.6 - 0.9 =$ | 34) $3.2 - 0.7 =$ |
| 5) $4.9 - 0.5 =$ | 20) $3.4 - 0.7 =$ | 35) $9.1 - 0.7 =$ |
| 6) $2.2 - 0.1 =$ | 21) $4.7 - 0.4 =$ | 36) $1.3 - 0.2 =$ |
| 7) $5.5 - 0.4 =$ | 22) $3.3 - 0.9 =$ | 37) $1.4 - 0.4 =$ |
| 8) $6.6 - 0.4 =$ | 23) $10.4 - 0.8 =$ | 38) $8.3 - 0.7 =$ |
| 9) $3 - 0.8 =$ | 24) $6.6 - 0.6 =$ | 39) $6.5 - 0.8 =$ |
| 10) $5.8 - 0.6 =$ | 25) $9.4 - 0.8 =$ | 40) $7.5 - 0.3 =$ |
| 11) $8.8 - 0.5 =$ | 26) $9.7 - 0.6 =$ | 41) $6 - 0.5 =$ |
| 12) $8 - 0.9 =$ | 27) $3.5 - 0.5 =$ | 42) $2.6 - 0.3 =$ |
| 13) $6.8 - 0.4 =$ | 28) $4.1 - 0.6 =$ | 43) $4.1 - 0.8 =$ |
| 14) $5.9 - 0.6 =$ | 29) $6.5 - 0.4 =$ | 44) $8.2 - 0.6 =$ |
| 15) $8.2 - 0.9 =$ | 30) $2.5 - 0.9 =$ | 45) $8.3 - 0.3 =$ |
-

Fill in the gaps

- | | | |
|--------------------------|---------------------------|---------------------------|
| 1) $9.2 - \square = 8.3$ | 11) $\square - 6.3 = 0.6$ | 21) $\square - 0.5 = 9.3$ |
| 2) $4 - \square = 0.7$ | 12) $5.7 - \square = 0.5$ | 22) $\square - 6.2 = 0.3$ |
| 3) $3.1 - \square = 0.8$ | 13) $\square - 5.5 = 0.8$ | 23) $7.2 - \square = 0.6$ |
| 4) $\square - 7 = 0.8$ | 14) $2 - \square = 1.2$ | 24) $\square - 0.3 = 1.3$ |
| 5) $3.1 - \square = 0.1$ | 15) $\square - 0.1 = 3.1$ | 25) $\square - 6 = 0.7$ |
| 6) $\square - 0.9 = 2.6$ | 16) $7 - \square = 6.1$ | 26) $7.8 - \square = 7.4$ |
| 7) $6.4 - \square = 5.5$ | 17) $5.9 - \square = 0.5$ | 27) $\square - 0.8 = 8$ |
| 8) $\square - 6.1 = 0.7$ | 18) $\square - 0.9 = 3.2$ | 28) $9.6 - \square = 0.5$ |
| 9) $\square - 4.7 = 0.9$ | 19) $\square - 0.6 = 1.4$ | 29) $\square - 6.6 = 0.7$ |
| 10) $2.5 - \square = 2$ | 20) $\square - 0.7 = 9.4$ | 30) $\square - 0.7 = 2.4$ |



- | | | |
|-----------------------|------------------------|------------------------|
| 1) $3.4 - 0.3 = 3.1$ | 16) $2.4 - 0.4 = 2$ | 31) $10.8 - 0.9 = 9.9$ |
| 2) $7.9 - 0.8 = 7.1$ | 17) $3.9 - 0.7 = 3.2$ | 32) $5.7 - 0.4 = 5.3$ |
| 3) $4.1 - 0.1 = 4$ | 18) $7.9 - 0.9 = 7$ | 33) $2.3 - 0.2 = 2.1$ |
| 4) $8.9 - 0.8 = 8.1$ | 19) $6.6 - 0.9 = 5.7$ | 34) $3.2 - 0.7 = 2.5$ |
| 5) $4.9 - 0.5 = 4.4$ | 20) $3.4 - 0.7 = 2.7$ | 35) $9.1 - 0.7 = 8.4$ |
| 6) $2.2 - 0.1 = 2.1$ | 21) $4.7 - 0.4 = 4.3$ | 36) $1.3 - 0.2 = 1.1$ |
| 7) $5.5 - 0.4 = 5.1$ | 22) $3.3 - 0.9 = 2.4$ | 37) $1.4 - 0.4 = 1$ |
| 8) $6.6 - 0.4 = 6.2$ | 23) $10.4 - 0.8 = 9.6$ | 38) $8.3 - 0.7 = 7.6$ |
| 9) $3 - 0.8 = 2.2$ | 24) $6.6 - 0.6 = 6$ | 39) $6.5 - 0.8 = 5.7$ |
| 10) $5.8 - 0.6 = 5.2$ | 25) $9.4 - 0.8 = 8.6$ | 40) $7.5 - 0.3 = 7.2$ |
| 11) $8.8 - 0.5 = 8.3$ | 26) $9.7 - 0.6 = 9.1$ | 41) $6 - 0.5 = 5.5$ |
| 12) $8 - 0.9 = 7.1$ | 27) $3.5 - 0.5 = 3$ | 42) $2.6 - 0.3 = 2.3$ |
| 13) $6.8 - 0.4 = 6.4$ | 28) $4.1 - 0.6 = 3.5$ | 43) $4.1 - 0.8 = 3.3$ |
| 14) $5.9 - 0.6 = 5.3$ | 29) $6.5 - 0.4 = 6.1$ | 44) $8.2 - 0.6 = 7.6$ |
| 15) $8.2 - 0.9 = 7.3$ | 30) $2.5 - 0.9 = 1.6$ | 45) $8.3 - 0.3 = 8$ |
-

Fill in the gaps

- | | | |
|------------------------------|--------------------------------|-------------------------------|
| 1) $9.2 - \boxed{0.9} = 8.3$ | 11) $\boxed{6.9} - 6.3 = 0.6$ | 21) $\boxed{9.8} - 0.5 = 9.3$ |
| 2) $4 - \boxed{3.3} = 0.7$ | 12) $5.7 - \boxed{5.2} = 0.5$ | 22) $\boxed{6.5} - 6.2 = 0.3$ |
| 3) $3.1 - \boxed{2.3} = 0.8$ | 13) $\boxed{6.3} - 5.5 = 0.8$ | 23) $7.2 - \boxed{6.6} = 0.6$ |
| 4) $\boxed{7.8} - 7 = 0.8$ | 14) $2 - \boxed{0.8} = 1.2$ | 24) $\boxed{1.6} - 0.3 = 1.3$ |
| 5) $3.1 - \boxed{3} = 0.1$ | 15) $\boxed{3.2} - 0.1 = 3.1$ | 25) $\boxed{6.7} - 6 = 0.7$ |
| 6) $\boxed{3.5} - 0.9 = 2.6$ | 16) $7 - \boxed{0.9} = 6.1$ | 26) $7.8 - \boxed{0.4} = 7.4$ |
| 7) $6.4 - \boxed{0.9} = 5.5$ | 17) $5.9 - \boxed{5.4} = 0.5$ | 27) $\boxed{8.8} - 0.8 = 8$ |
| 8) $\boxed{6.8} - 6.1 = 0.7$ | 18) $\boxed{4.1} - 0.9 = 3.2$ | 28) $9.6 - \boxed{9.1} = 0.5$ |
| 9) $\boxed{5.6} - 4.7 = 0.9$ | 19) $\boxed{2} - 0.6 = 1.4$ | 29) $\boxed{7.3} - 6.6 = 0.7$ |
| 10) $2.5 - \boxed{0.5} = 2$ | 20) $\boxed{10.1} - 0.7 = 9.4$ | 30) $\boxed{3.1} - 0.7 = 2.4$ |



Subtracting decimal numbers | 2



$$\begin{array}{r} 1) \quad 28.2 \\ - 18.1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 89.9 \\ - 12.9 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 45.8 \\ - 22.9 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 724.9 \\ - 276.2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 21) \quad 6921.5 \\ - 3288.5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 45.3 \\ - 28.3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 70.7 \\ - 38.1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 52.5 \\ - 26.5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 913.3 \\ - 393.4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 22) \quad 9377.1 \\ - 8513.7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 99.4 \\ - 87.3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 84.7 \\ - 47.4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 64.5 \\ - 43.4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 642.8 \\ - 466.1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 23) \quad 3414.8 \\ - 2972.2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 67.5 \\ - 55.8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 73.3 \\ - 62.3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 38.3 \\ - 19.7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 859.6 \\ - 549.9 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 24) \quad 9900.4 \\ - 4599.7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 96.8 \\ - 31.8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 36.4 \\ - 23.7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 54.4 \\ - 39.8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 756.1 \\ - 452.9 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 25) \quad 7000.2 \\ - 5197.9 \\ \hline \\ \hline \end{array}$$



Round your answers to the nearest whole number

Supplied by The NZ Centre of Mathematics



$$\begin{array}{r} 1) \quad 28.2 \\ - 18.1 \\ \hline 10.1 \\ \hline 10^* \end{array}$$

$$\begin{array}{r} 6) \quad 89.9 \\ - 12.9 \\ \hline 77.0 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 45.8 \\ - 22.9 \\ \hline 22.9 \\ \hline 23^* \end{array}$$

$$\begin{array}{r} 16) \quad 724.9 \\ - 276.2 \\ \hline 448.7 \\ \hline 449^* \end{array}$$

$$\begin{array}{r} 21) \quad 6921.5 \\ - 3288.5 \\ \hline 3633.0 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 45.3 \\ - 28.3 \\ \hline 17.0 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 70.7 \\ - 38.1 \\ \hline 32.6 \\ \hline 33^* \end{array}$$

$$\begin{array}{r} 12) \quad 52.5 \\ - 26.5 \\ \hline 26.0 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 913.3 \\ - 393.4 \\ \hline 519.9 \\ \hline 520^* \end{array}$$

$$\begin{array}{r} 22) \quad 9377.1 \\ - 8513.7 \\ \hline 863.4 \\ \hline 863^* \end{array}$$

$$\begin{array}{r} 3) \quad 99.4 \\ - 87.3 \\ \hline 12.1 \\ \hline 12^* \end{array}$$

$$\begin{array}{r} 8) \quad 84.7 \\ - 47.4 \\ \hline 37.3 \\ \hline 37^* \end{array}$$

$$\begin{array}{r} 13) \quad 64.5 \\ - 43.4 \\ \hline 21.1 \\ \hline 21^* \end{array}$$

$$\begin{array}{r} 18) \quad 642.8 \\ - 466.1 \\ \hline 176.7 \\ \hline 177^* \end{array}$$

$$\begin{array}{r} 23) \quad 3414.8 \\ - 2972.2 \\ \hline 442.6 \\ \hline 443^* \end{array}$$

$$\begin{array}{r} 4) \quad 67.5 \\ - 55.8 \\ \hline 11.7 \\ \hline 12^* \end{array}$$

$$\begin{array}{r} 9) \quad 73.3 \\ - 62.3 \\ \hline 11.0 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 38.3 \\ - 19.7 \\ \hline 18.6 \\ \hline 19^* \end{array}$$

$$\begin{array}{r} 19) \quad 859.6 \\ - 549.9 \\ \hline 309.7 \\ \hline 310^* \end{array}$$

$$\begin{array}{r} 24) \quad 9900.4 \\ - 4599.7 \\ \hline 5300.7 \\ \hline 5301^* \end{array}$$

$$\begin{array}{r} 5) \quad 96.8 \\ - 31.8 \\ \hline 65.0 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 36.4 \\ - 23.7 \\ \hline 12.7 \\ \hline 13^* \end{array}$$

$$\begin{array}{r} 15) \quad 54.4 \\ - 39.8 \\ \hline 14.6 \\ \hline 15^* \end{array}$$

$$\begin{array}{r} 20) \quad 756.1 \\ - 452.9 \\ \hline 303.2 \\ \hline 303^* \end{array}$$

$$\begin{array}{r} 25) \quad 7000.2 \\ - 5197.9 \\ \hline 1802.3 \\ \hline 1802^* \end{array}$$

* answer rounded to the nearest whole number
Supplied by The NZ Centre of Mathematics

Multiplication of Decimals

$$\begin{array}{r} 1) \quad 2.6 \\ \times \quad 7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 6) \quad 45.8 \\ \times \quad 3 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 11) \quad 698.7 \\ \times \quad 8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 16) \quad 311.77 \\ \times \quad 5 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 21) \quad 9663.54 \\ \times \quad 4 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 2) \quad 7.2 \\ \times \quad 4 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 7) \quad 62.3 \\ \times \quad 2 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 12) \quad 243.5 \\ \times \quad 5 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 17) \quad 912.21 \\ \times \quad 6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 22) \quad 7428.62 \\ \times \quad 9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 3) \quad 3.9 \\ \times \quad 8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 8) \quad 79.4 \\ \times \quad 3 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 13) \quad 327.8 \\ \times \quad 4 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 18) \quad 226.71 \\ \times \quad 2 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 23) \quad 4267.83 \\ \times \quad 8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 4) \quad 4.8 \\ \times \quad 5 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 9) \quad 90.6 \\ \times \quad 6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 14) \quad 476.2 \\ \times \quad 7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 19) \quad 760.94 \\ \times \quad 3 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 24) \quad 2037.62 \\ \times \quad 7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 5) \quad 5.5 \\ \times \quad 2 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 10) \quad 83.5 \\ \times \quad 9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 15) \quad 569.5 \\ \times \quad 9 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 20) \quad 680.29 \\ \times \quad 6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 25) \quad 8328.39 \\ \times \quad 4 \\ \hline \hline \end{array}$$

Extra

Round your answers to the nearest whole number

Supplied by The NZ Centre of Mathematics

Multiplication of Decimals

$$\begin{array}{r}
 1) \quad 2.6 \\
 \times \quad 7 \\
 \hline
 18.2 \\
 \hline
 \mathbf{18}^*
 \end{array}$$

$$\begin{array}{r}
 6) \quad 45.8 \\
 \times \quad 3 \\
 \hline
 137.4 \\
 \hline
 \mathbf{137}^*
 \end{array}$$

$$\begin{array}{r}
 11) \quad 698.7 \\
 \times \quad 8 \\
 \hline
 5589.6 \\
 \hline
 \mathbf{5590}^*
 \end{array}$$

$$\begin{array}{r}
 16) \quad 311.77 \\
 \times \quad 5 \\
 \hline
 1558.85 \\
 \hline
 \mathbf{1559}^*
 \end{array}$$

$$\begin{array}{r}
 21) \quad 9663.54 \\
 \times \quad 4 \\
 \hline
 38654.16 \\
 \hline
 \mathbf{38654}^*
 \end{array}$$

$$\begin{array}{r}
 2) \quad 7.2 \\
 \times \quad 4 \\
 \hline
 28.8 \\
 \hline
 \mathbf{29}^*
 \end{array}$$

$$\begin{array}{r}
 7) \quad 62.3 \\
 \times \quad 2 \\
 \hline
 124.6 \\
 \hline
 \mathbf{125}^*
 \end{array}$$

$$\begin{array}{r}
 12) \quad 243.5 \\
 \times \quad 5 \\
 \hline
 1217.5 \\
 \hline
 \mathbf{1218}^*
 \end{array}$$

$$\begin{array}{r}
 17) \quad 912.21 \\
 \times \quad 6 \\
 \hline
 5473.26 \\
 \hline
 \mathbf{5473}^*
 \end{array}$$

$$\begin{array}{r}
 22) \quad 7428.62 \\
 \times \quad 9 \\
 \hline
 66857.58 \\
 \hline
 \mathbf{66858}^*
 \end{array}$$

$$\begin{array}{r}
 3) \quad 3.9 \\
 \times \quad 8 \\
 \hline
 31.2 \\
 \hline
 \mathbf{31}^*
 \end{array}$$

$$\begin{array}{r}
 8) \quad 79.4 \\
 \times \quad 3 \\
 \hline
 238.2 \\
 \hline
 \mathbf{238}^*
 \end{array}$$

$$\begin{array}{r}
 13) \quad 327.8 \\
 \times \quad 4 \\
 \hline
 1311.2 \\
 \hline
 \mathbf{1311}^*
 \end{array}$$

$$\begin{array}{r}
 18) \quad 226.71 \\
 \times \quad 2 \\
 \hline
 453.42 \\
 \hline
 \mathbf{453}^*
 \end{array}$$

$$\begin{array}{r}
 23) \quad 4267.83 \\
 \times \quad 8 \\
 \hline
 34142.64 \\
 \hline
 \mathbf{34143}^*
 \end{array}$$

$$\begin{array}{r}
 4) \quad 4.8 \\
 \times \quad 5 \\
 \hline
 24.0 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 9) \quad 90.6 \\
 \times \quad 6 \\
 \hline
 543.6 \\
 \hline
 \mathbf{544}^*
 \end{array}$$

$$\begin{array}{r}
 14) \quad 476.2 \\
 \times \quad 7 \\
 \hline
 3333.4 \\
 \hline
 \mathbf{3333}^*
 \end{array}$$

$$\begin{array}{r}
 19) \quad 760.94 \\
 \times \quad 3 \\
 \hline
 2282.82 \\
 \hline
 \mathbf{2283}^*
 \end{array}$$

$$\begin{array}{r}
 24) \quad 2037.62 \\
 \times \quad 7 \\
 \hline
 14263.34 \\
 \hline
 \mathbf{14263}^*
 \end{array}$$

$$\begin{array}{r}
 5) \quad 5.5 \\
 \times \quad 2 \\
 \hline
 11.0 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 10) \quad 83.5 \\
 \times \quad 9 \\
 \hline
 751.5 \\
 \hline
 \mathbf{752}^*
 \end{array}$$

$$\begin{array}{r}
 15) \quad 569.5 \\
 \times \quad 9 \\
 \hline
 5125.5 \\
 \hline
 \mathbf{5126}^*
 \end{array}$$

$$\begin{array}{r}
 20) \quad 680.29 \\
 \times \quad 6 \\
 \hline
 4081.74 \\
 \hline
 \mathbf{4082}^*
 \end{array}$$

$$\begin{array}{r}
 25) \quad 8328.39 \\
 \times \quad 4 \\
 \hline
 33313.56 \\
 \hline
 \mathbf{33314}^*
 \end{array}$$

* answer rounded to the nearest whole number
 Supplied by The NZ Centre of Mathematics

Test 1

Test 2

- 1) $2.8 \div 4 =$
- 2) $3.2 \div 4 =$
- 3) $3.5 \div 5 =$
- 4) $1.8 \div 2 =$
- 5) $2.4 \div 3 =$

- 6) $2.4 \div 4 =$
- 7) $5.4 \div 6 =$
- 8) $4.8 \div 6 =$
- 9) $1.8 \div 3 =$
- 10) $1.4 \div 2 =$

- 11) $2.7 \div 3 =$
- 12) $2.5 \div 5 =$
- 13) $4.2 \div 6 =$
- 14) $6.4 \div 8 =$
- 15) $4.5 \div 5 =$

- 16) $1.2 \div 3 =$
- 17) $1.5 \div 3 =$
- 18) $3.6 \div 6 =$
- 19) $1.6 \div 4 =$
- 20) $1.6 \div 2 =$

- 21) $2.1 \div 3 =$
- 22) $3.6 \div 4 =$
- 23) $4.9 \div 7 =$
- 24) $6.3 \div 7 =$
- 25) $5.6 \div 7 =$

- 1) $7 \overline{) 9712.5}$
- 2) $3 \overline{) 2294.4}$
- 3) $9 \overline{) 4068.9}$
- 4) $2 \overline{) 1731.8}$
- 5) $8 \overline{) 5493.6}$
- 6) $4 \overline{) 8773.6}$
- 7) $3 \overline{) 6003.9}$
- 8) $5 \overline{) 3874.5}$
- 9) $2 \overline{) 3958.8}$
- 10) $6 \overline{) 7759.2}$

- 11) $6 \overline{) 58878.72}$
- 12) $2 \overline{) 18294.68}$
- 13) $5 \overline{) 49380.85}$
- 14) $9 \overline{) 80602.29}$
- 15) $3 \overline{) 22995.39}$
- 16) $7 \overline{) 70610.47}$
- 17) $2 \overline{) 91975.74}$
- 18) $3 \overline{) 25565.67}$
- 19) $4 \overline{) 34936.92}$
- 20) $8 \overline{) 63851.68}$

Test 1

- 1) $2.8 \div 4 = 0.7$
- 2) $3.2 \div 4 = 0.8$
- 3) $3.5 \div 5 = 0.7$
- 4) $1.8 \div 2 = 0.9$
- 5) $2.4 \div 3 = 0.8$

- 6) $2.4 \div 4 = 0.6$
- 7) $5.4 \div 6 = 0.9$
- 8) $4.8 \div 6 = 0.8$
- 9) $1.8 \div 3 = 0.6$
- 10) $1.4 \div 2 = 0.7$

- 11) $2.7 \div 3 = 0.9$
- 12) $2.5 \div 5 = 0.5$
- 13) $4.2 \div 6 = 0.7$
- 14) $6.4 \div 8 = 0.8$
- 15) $4.5 \div 5 = 0.9$

- 16) $1.2 \div 3 = 0.4$
- 17) $1.5 \div 3 = 0.5$
- 18) $3.6 \div 6 = 0.6$
- 19) $1.6 \div 4 = 0.4$
- 20) $1.6 \div 2 = 0.8$

- 21) $2.1 \div 3 = 0.7$
- 22) $3.6 \div 4 = 0.9$
- 23) $4.9 \div 7 = 0.7$
- 24) $6.3 \div 7 = 0.9$
- 25) $5.6 \div 7 = 0.8$

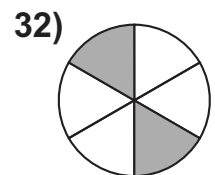
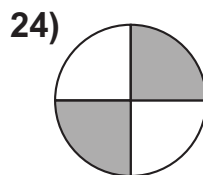
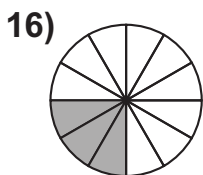
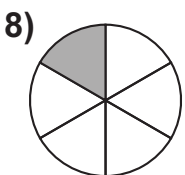
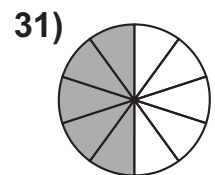
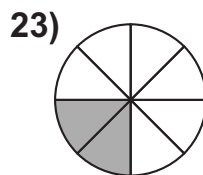
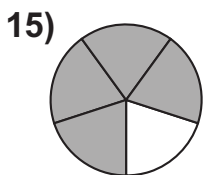
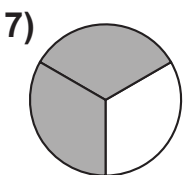
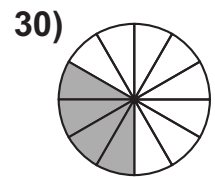
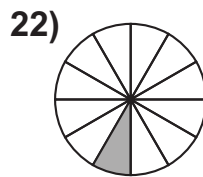
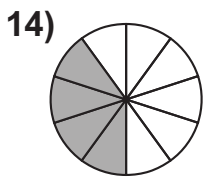
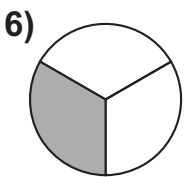
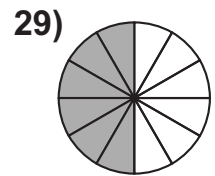
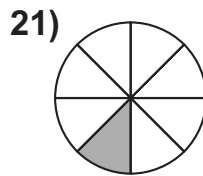
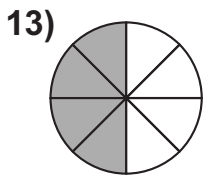
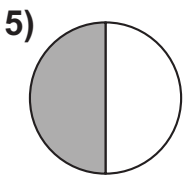
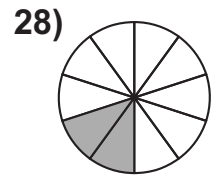
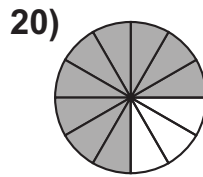
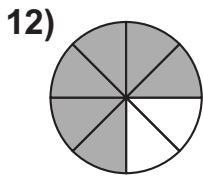
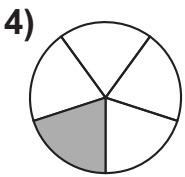
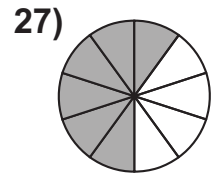
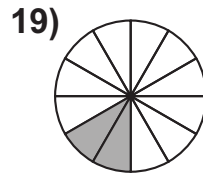
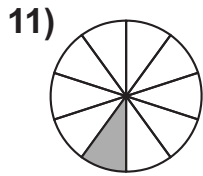
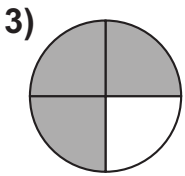
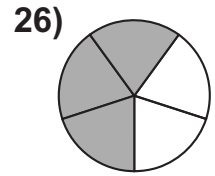
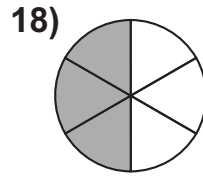
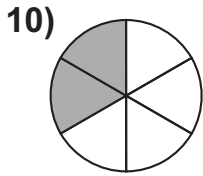
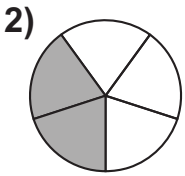
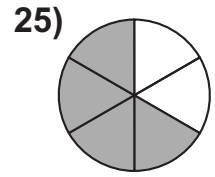
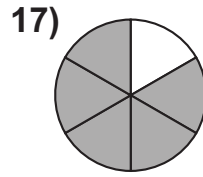
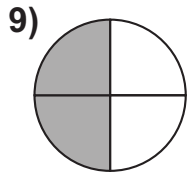
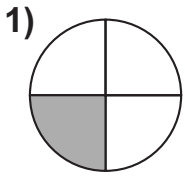
Test 2

- 1)
$$7 \overline{) 1387.5} \quad 9712.5$$
- 2)
$$3 \overline{) 764.8} \quad 2294.4$$
- 3)
$$9 \overline{) 452.1} \quad 4068.9$$
- 4)
$$2 \overline{) 865.9} \quad 1731.8$$
- 5)
$$8 \overline{) 686.7} \quad 5493.6$$
- 6)
$$4 \overline{) 2193.4} \quad 8773.6$$
- 7)
$$3 \overline{) 2001.3} \quad 6003.9$$
- 8)
$$5 \overline{) 774.9} \quad 3874.5$$
- 9)
$$2 \overline{) 1979.4} \quad 3958.8$$
- 10)
$$6 \overline{) 1293.2} \quad 7759.2$$

- 11)
$$6 \overline{) 9813.12} \quad 58878.72$$
- 12)
$$2 \overline{) 9147.34} \quad 18294.68$$
- 13)
$$5 \overline{) 9876.17} \quad 49380.85$$
- 14)
$$9 \overline{) 8955.81} \quad 80602.29$$
- 15)
$$3 \overline{) 7665.13} \quad 22995.39$$
- 16)
$$7 \overline{) 10087.21} \quad 70610.47$$
- 17)
$$2 \overline{) 45987.87} \quad 91975.74$$
- 18)
$$3 \overline{) 8521.89} \quad 25565.67$$
- 19)
$$4 \overline{) 8734.23} \quad 34936.92$$
- 20)
$$8 \overline{) 7981.46} \quad 63851.68$$

How Much is Shaded?

1) $\frac{1}{4}$





How Much is Shaded?



1) $\frac{1}{4}$

9) $\frac{2}{4}$

17) $\frac{5}{6}$

25) $\frac{4}{6}$

2) $\frac{2}{5}$

10) $\frac{2}{6}$

18) $\frac{3}{6}$

26) $\frac{3}{5}$

3) $\frac{3}{4}$

11) $\frac{1}{10}$

19) $\frac{2}{12}$

27) $\frac{6}{10}$

4) $\frac{1}{5}$

12) $\frac{6}{8}$

20) $\frac{9}{12}$

28) $\frac{2}{10}$

5) $\frac{1}{2}$

13) $\frac{4}{8}$

21) $\frac{1}{8}$

29) $\frac{6}{12}$

6) $\frac{1}{3}$

14) $\frac{4}{10}$

22) $\frac{1}{12}$

30) $\frac{4}{12}$

7) $\frac{2}{3}$

15) $\frac{4}{5}$

23) $\frac{2}{8}$

31) $\frac{5}{10}$

8) $\frac{1}{6}$

16) $\frac{3}{12}$

24) $\frac{2}{4}$

32) $\frac{2}{6}$



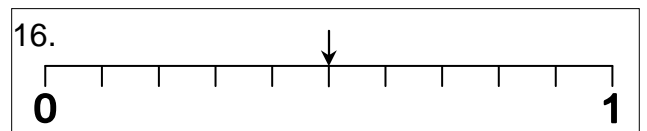
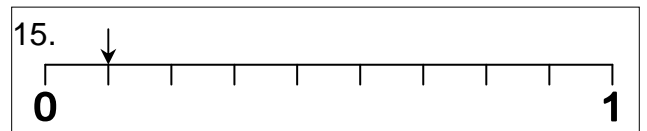
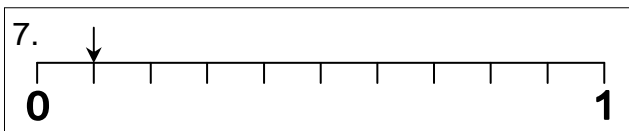
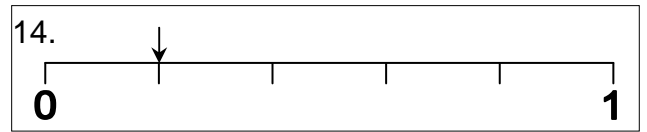
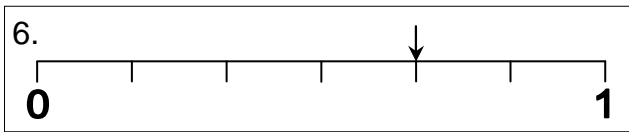
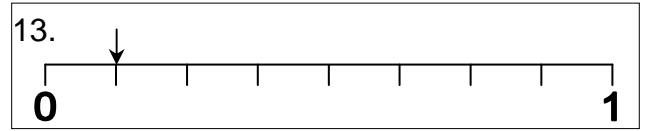
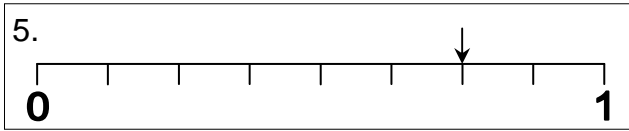
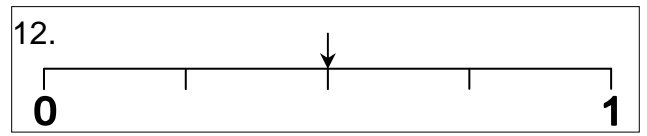
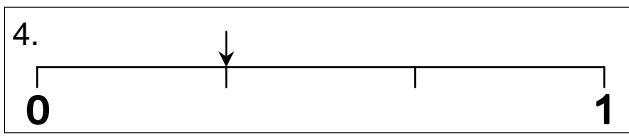
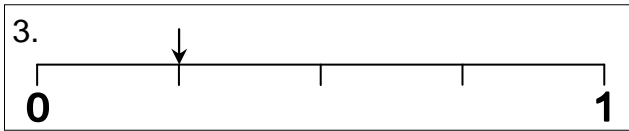
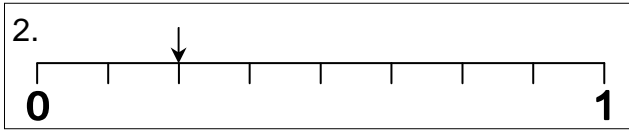
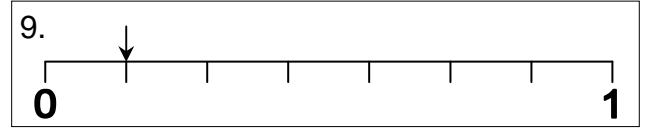
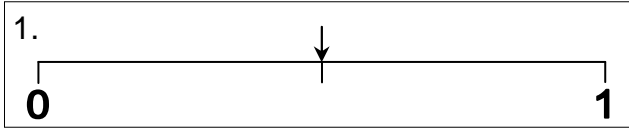
Show the percentage and/or decimal equivalent of your answers



How Far Along Each Line are the Arrows?



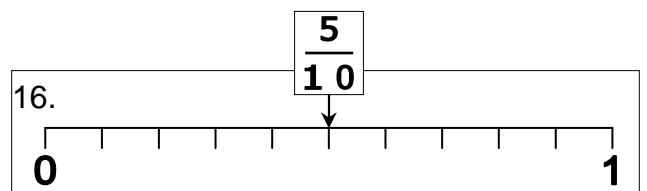
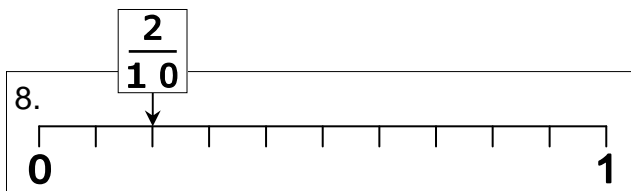
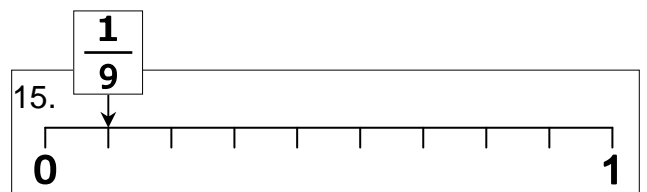
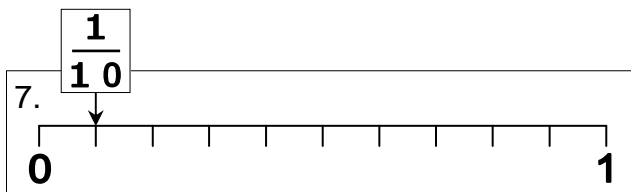
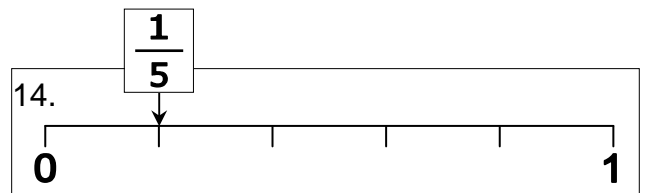
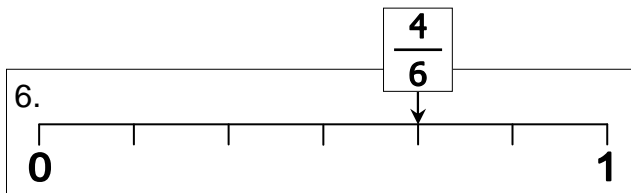
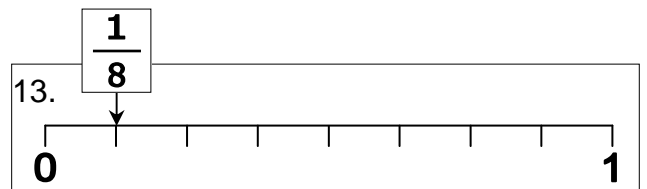
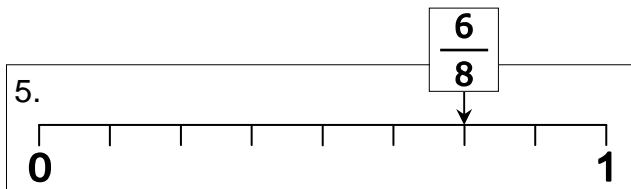
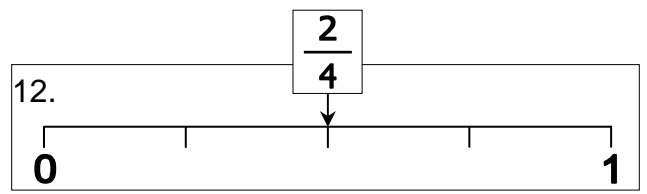
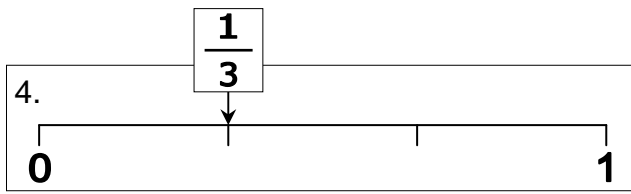
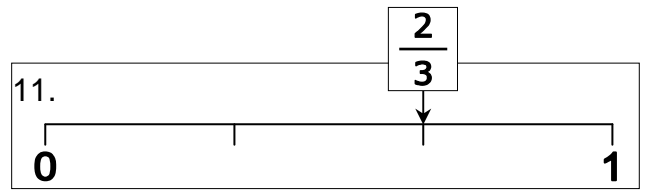
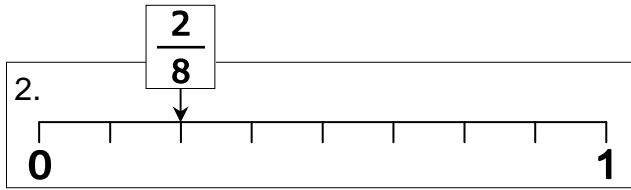
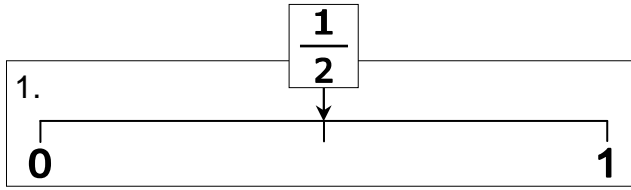
1) $\frac{1}{2}$



Show the percentage and/or decimal equivalent of your answers



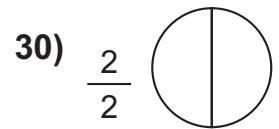
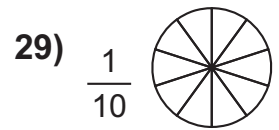
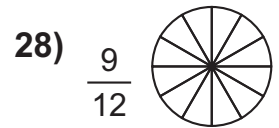
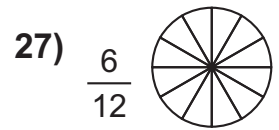
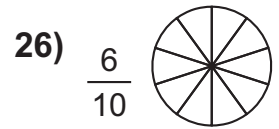
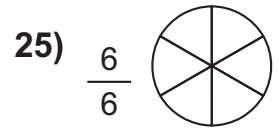
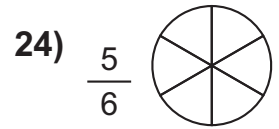
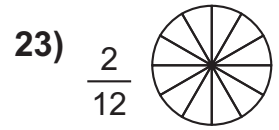
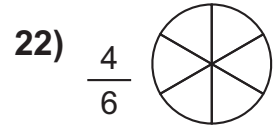
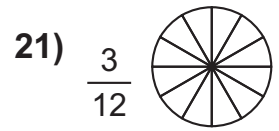
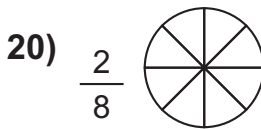
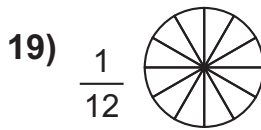
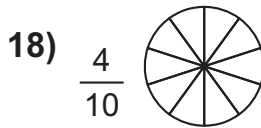
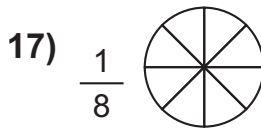
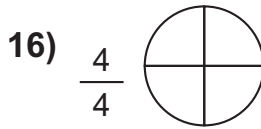
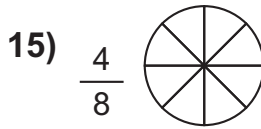
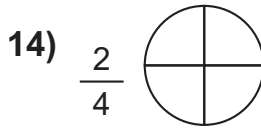
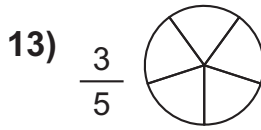
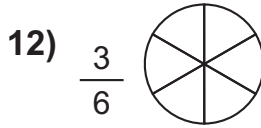
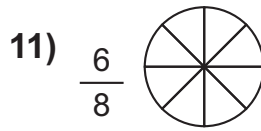
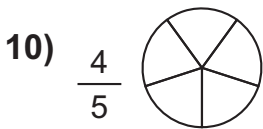
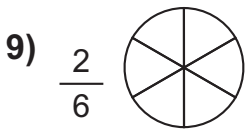
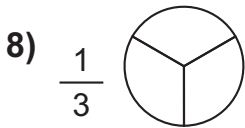
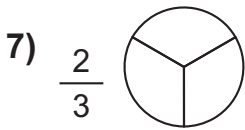
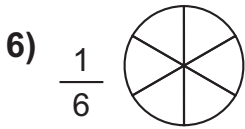
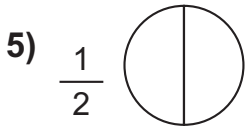
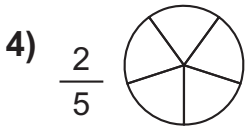
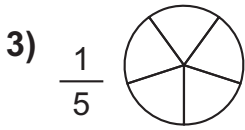
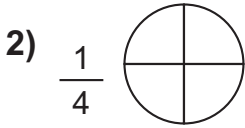
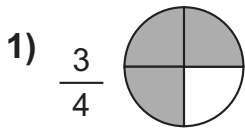
How Far Along Each Line are the Arrows?



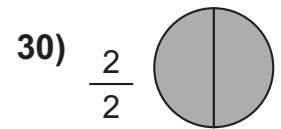
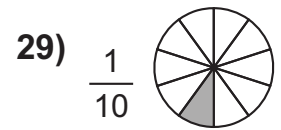
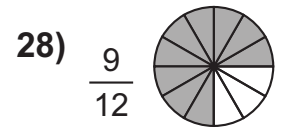
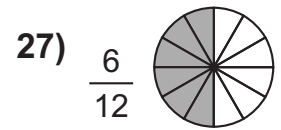
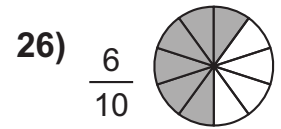
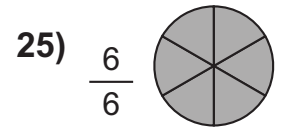
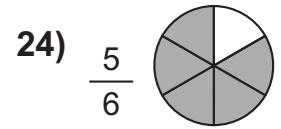
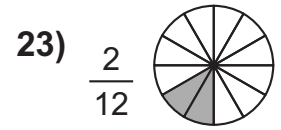
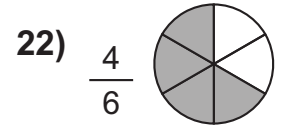
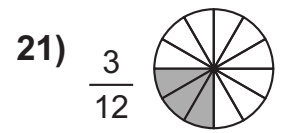
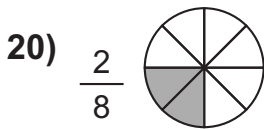
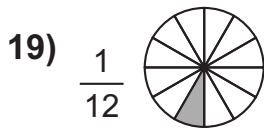
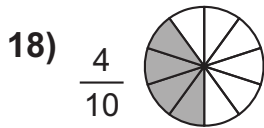
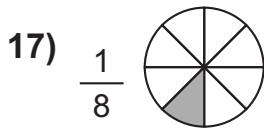
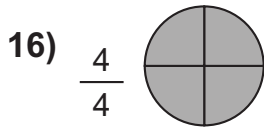
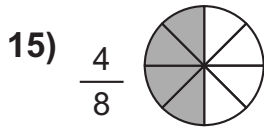
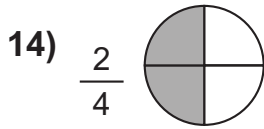
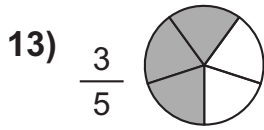
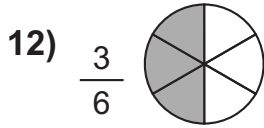
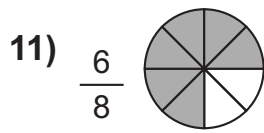
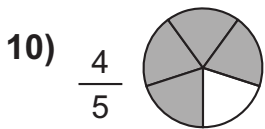
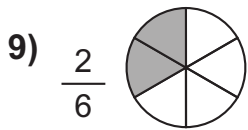
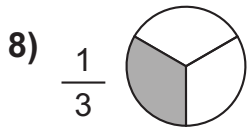
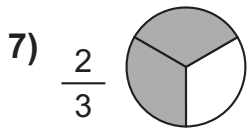
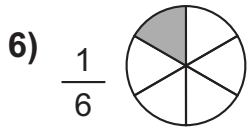
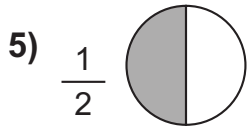
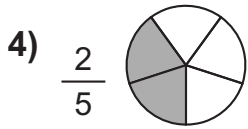
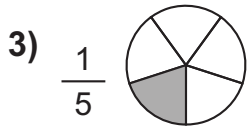
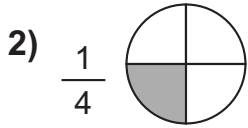
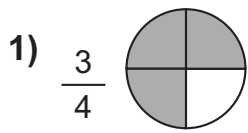
Show the percentage and/or decimal equivalent of your answers

Pie Shading

The first pie has been shaded for you.



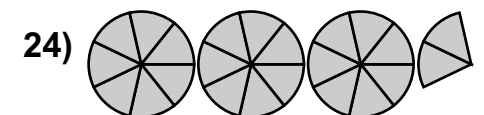
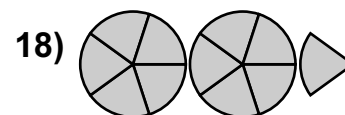
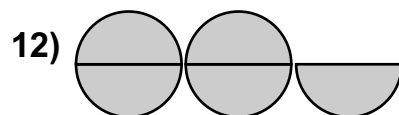
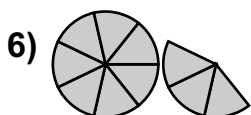
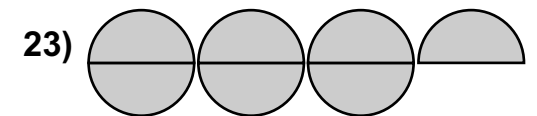
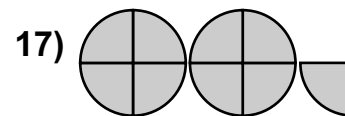
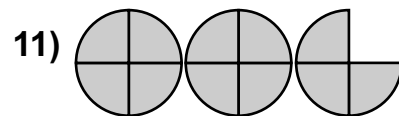
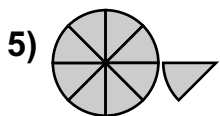
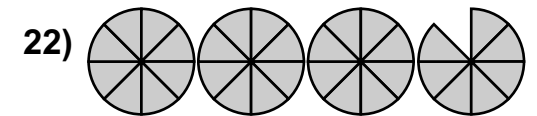
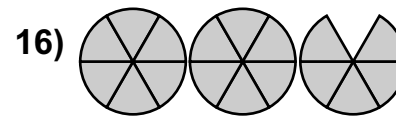
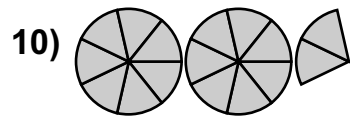
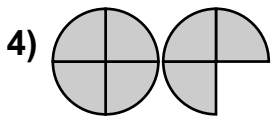
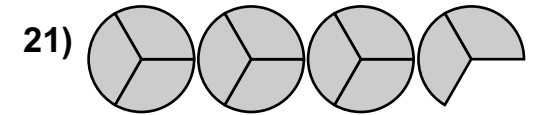
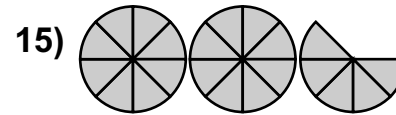
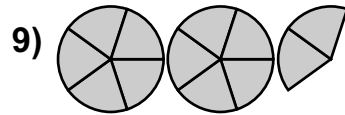
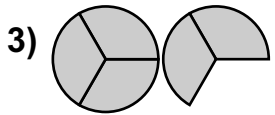
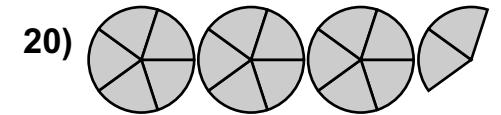
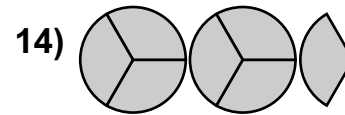
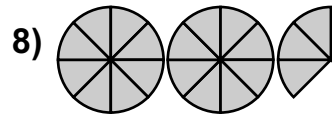
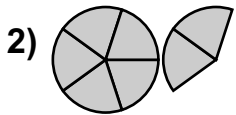
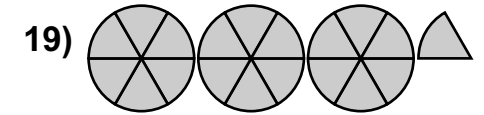
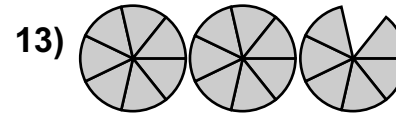
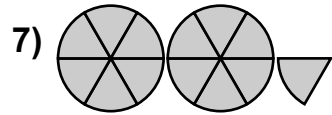
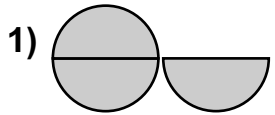
Pie Shading ■



Improper Fractions

What improper fractions are represented by these illustrations?

1) $\frac{3}{2}$



Extra

Show each of your answers as a mixed fraction. 1) $1\frac{1}{2}$



Improper Fractions



Extra

1) $\frac{3}{2}$ 7) $\frac{13}{6}$ 13) $\frac{20}{7}$ 19) $\frac{19}{6}$

2) $\frac{7}{5}$ 8) $\frac{19}{8}$ 14) $\frac{7}{3}$ 20) $\frac{17}{5}$

3) $\frac{5}{3}$ 9) $\frac{12}{5}$ 15) $\frac{21}{8}$ 21) $\frac{11}{3}$

4) $\frac{7}{4}$ 10) $\frac{16}{7}$ 16) $\frac{17}{6}$ 22) $\frac{31}{8}$

5) $\frac{9}{8}$ 11) $\frac{11}{4}$ 17) $\frac{9}{4}$ 23) $\frac{7}{2}$

6) $\frac{10}{7}$ 12) $\frac{5}{2}$ 18) $\frac{11}{5}$ 24) $\frac{23}{7}$

1) $1 \frac{1}{2}$ 7) $2 \frac{1}{6}$ 13) $2 \frac{6}{7}$ 19) $3 \frac{1}{6}$

2) $1 \frac{2}{5}$ 8) $2 \frac{3}{8}$ 14) $2 \frac{1}{3}$ 20) $3 \frac{2}{5}$

3) $1 \frac{2}{3}$ 9) $2 \frac{2}{5}$ 15) $2 \frac{5}{8}$ 21) $3 \frac{2}{3}$

4) $1 \frac{3}{4}$ 10) $2 \frac{2}{7}$ 16) $2 \frac{5}{6}$ 22) $3 \frac{7}{8}$

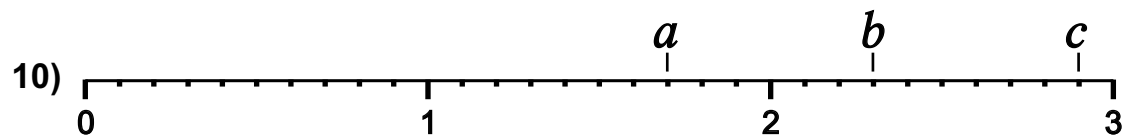
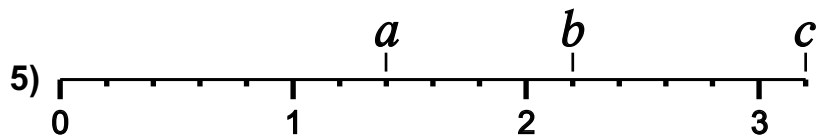
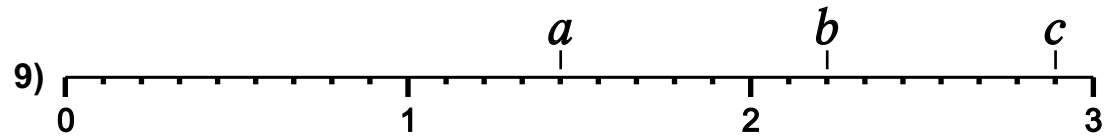
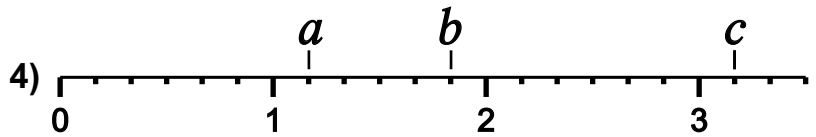
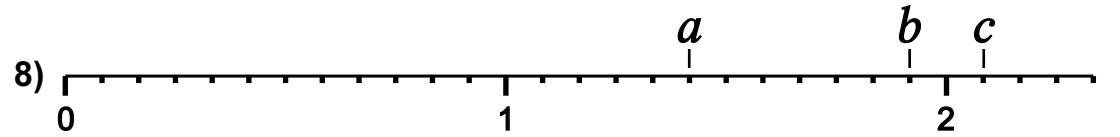
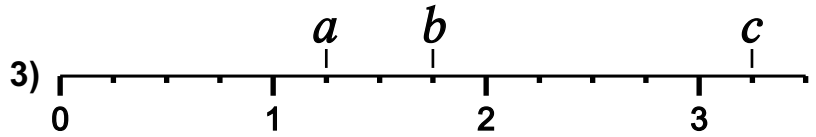
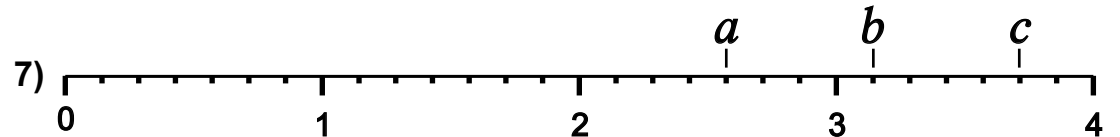
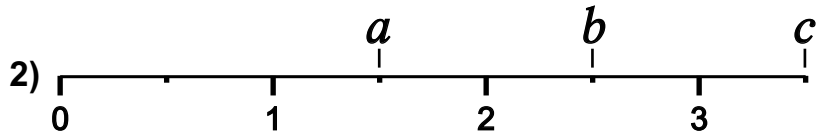
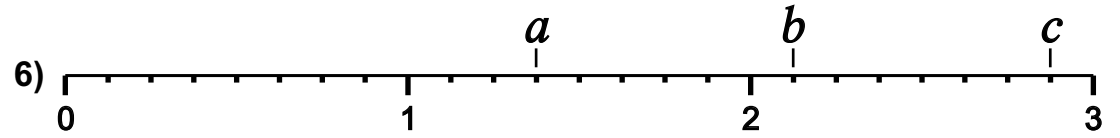
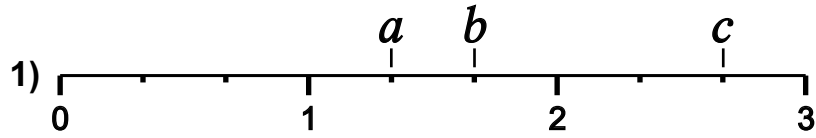
5) $1 \frac{1}{8}$ 11) $2 \frac{3}{4}$ 17) $2 \frac{1}{4}$ 23) $3 \frac{1}{2}$

6) $1 \frac{3}{7}$ 12) $2 \frac{1}{2}$ 18) $2 \frac{1}{5}$ 24) $3 \frac{2}{7}$

Mixed Fractions

1a. $1\frac{1}{3}$

What mixed fractions are represented by these illustrations?



Extra

Show each of your answers as an improper fraction. 1a. $\frac{4}{3}$

 **Mixed Fractions** 
(answers)

1a) $1\frac{1}{3}$ b) $1\frac{2}{3}$ c) $2\frac{2}{3}$ 6a) $1\frac{3}{8}$ b) $2\frac{1}{8}$ c) $2\frac{7}{8}$

2a) $1\frac{1}{2}$ b) $2\frac{1}{2}$ c) $3\frac{1}{2}$ 7a) $2\frac{4}{7}$ b) $3\frac{1}{7}$ c) $3\frac{5}{7}$

3a) $1\frac{1}{4}$ b) $1\frac{3}{4}$ c) $3\frac{1}{4}$ 8a) $1\frac{5}{12}$ b) $1\frac{11}{12}$ c) $2\frac{1}{12}$

4a) $1\frac{1}{6}$ b) $1\frac{5}{6}$ c) $3\frac{1}{6}$ 9a) $1\frac{4}{9}$ b) $2\frac{2}{9}$ c) $2\frac{8}{9}$

5a) $1\frac{2}{5}$ b) $2\frac{1}{5}$ c) $3\frac{1}{5}$ 10a) $1\frac{7}{10}$ b) $2\frac{3}{10}$ c) $2\frac{9}{10}$

Extra (answers as improper fractions)

1a) $\frac{4}{3}$ b) $\frac{5}{3}$ c) $\frac{8}{3}$ 6a) $\frac{11}{8}$ b) $\frac{17}{8}$ c) $\frac{23}{8}$

2a) $\frac{3}{2}$ b) $\frac{5}{2}$ c) $\frac{7}{2}$ 7a) $\frac{18}{7}$ b) $\frac{22}{7}$ c) $\frac{26}{7}$

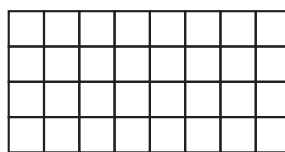
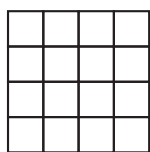
3a) $\frac{5}{4}$ b) $\frac{7}{4}$ c) $\frac{13}{4}$ 8a) $\frac{17}{12}$ b) $\frac{23}{12}$ c) $\frac{25}{12}$

4a) $\frac{7}{6}$ b) $\frac{11}{6}$ c) $\frac{19}{6}$ 9a) $\frac{13}{9}$ b) $\frac{20}{9}$ c) $\frac{26}{9}$

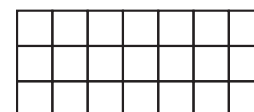
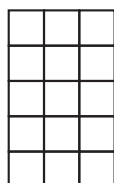
5a) $\frac{7}{5}$ b) $\frac{11}{5}$ c) $\frac{16}{5}$ 10a) $\frac{17}{10}$ b) $\frac{23}{10}$ c) $\frac{29}{10}$

◊ Shading Blocks ◻

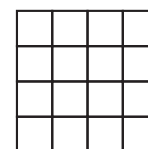
Shade in $\frac{1}{2}$ of each of these blocks.



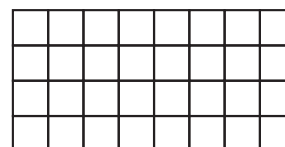
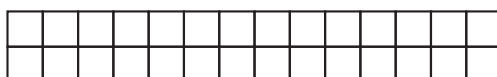
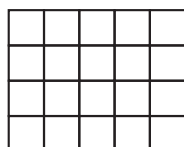
Shade in $\frac{1}{3}$ of each of these blocks.



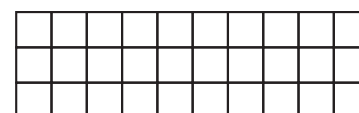
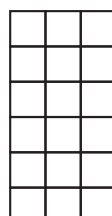
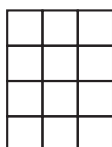
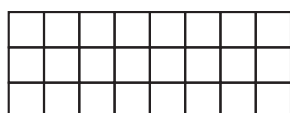
Shade in $\frac{1}{4}$ of each of these blocks.



Shade in $\frac{3}{4}$ of each of these blocks.

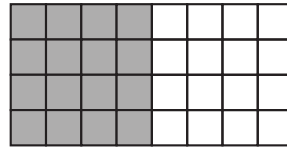
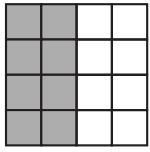


Shade in $\frac{2}{3}$ of each of these blocks.

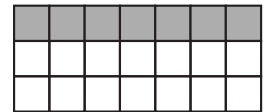
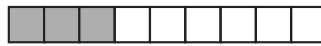
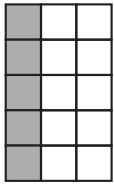


◊ Shading Blocks ◻

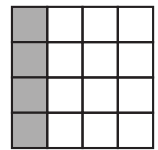
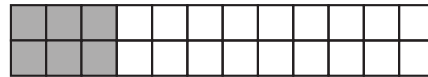
Shade in $\frac{1}{2}$ of each of these blocks.



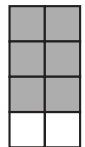
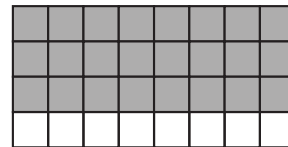
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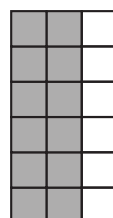
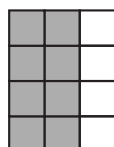
Shade in $\frac{1}{4}$ of each of these blocks.



Shade in $\frac{3}{4}$ of each of these blocks.

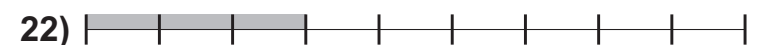
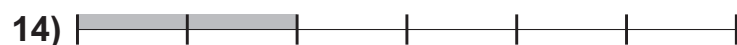
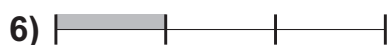
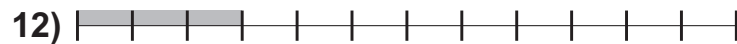


Shade in $\frac{2}{3}$ of each of these blocks.



Line Fractions

example:  $\frac{3}{7}$





1) $\frac{1}{2}$

9) $\frac{2}{10}$

17) $\frac{5}{10}$

2) $\frac{2}{4}$

10) $\frac{7}{7}$

18) $\frac{6}{12}$

3) $\frac{1}{4}$

11) $\frac{2}{8}$

19) $\frac{1}{10}$

4) $\frac{2}{3}$

12) $\frac{3}{12}$

20) $\frac{9}{12}$

5) $\frac{2}{2}$

13) $\frac{1}{9}$

21) $\frac{6}{8}$

6) $\frac{1}{3}$

14) $\frac{2}{6}$

22) $\frac{3}{9}$

7) $\frac{3}{4}$

15) $\frac{3}{6}$

23) $\frac{4}{6}$

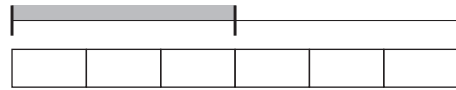
8) $\frac{1}{5}$

16) $\frac{4}{8}$

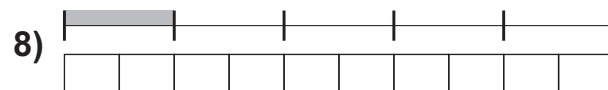
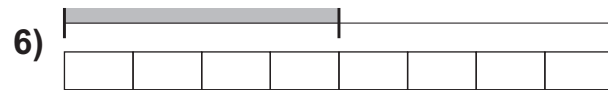
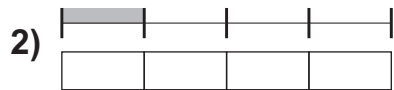
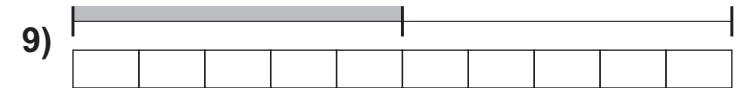
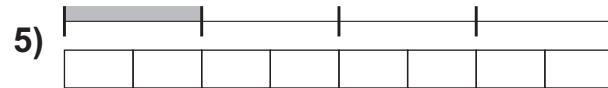
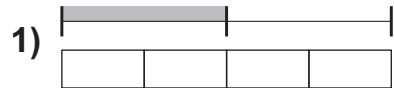
24) $\frac{8}{12}$



example:

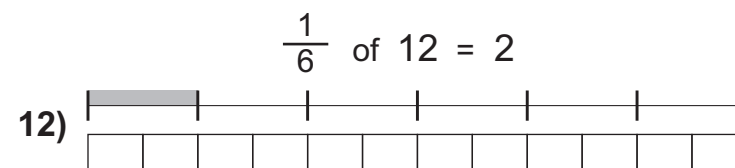
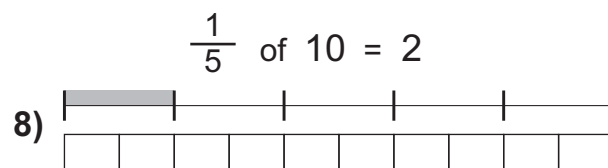
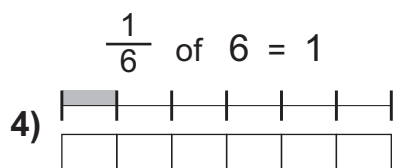
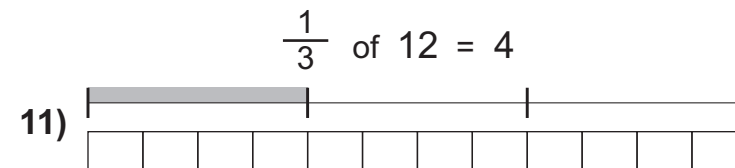
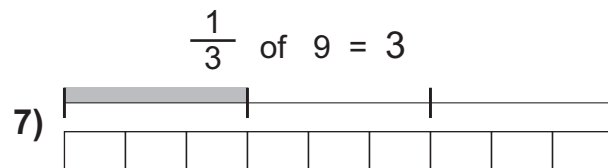
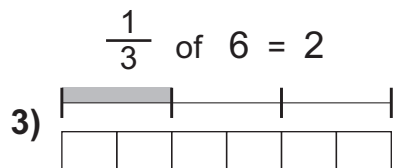
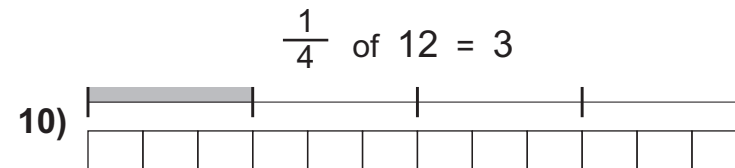
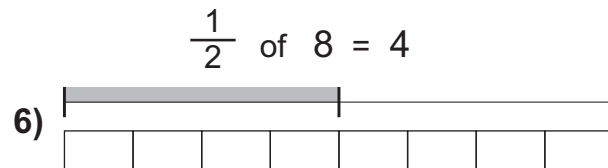
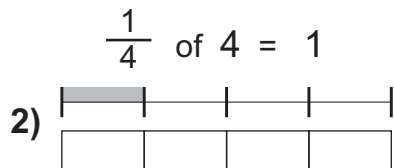
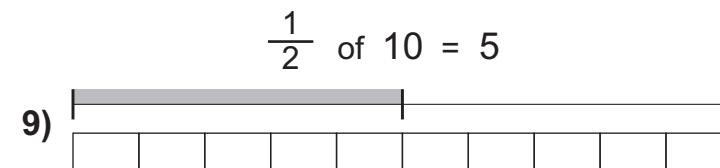
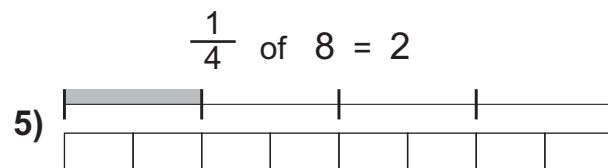
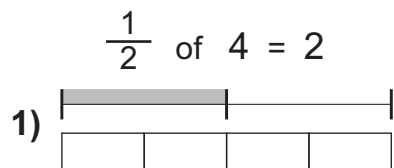


$$\frac{1}{2} \text{ of } 6 = 3$$



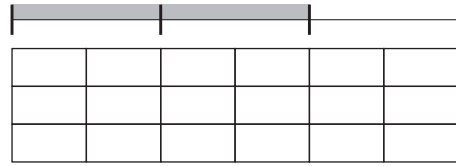


example:  $\frac{1}{2}$ of 6 = 3

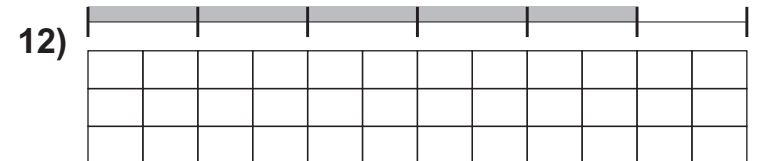
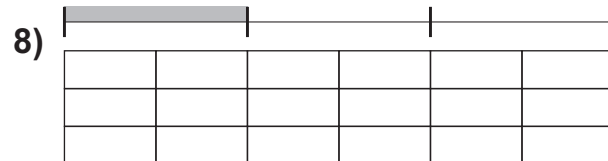
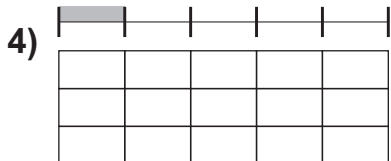
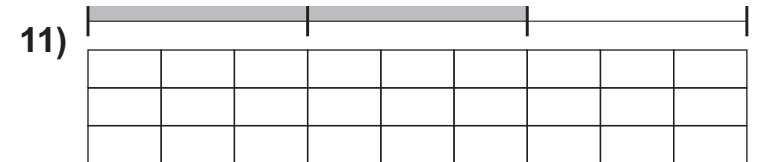
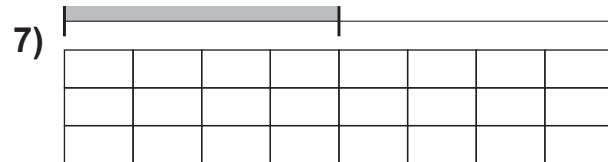
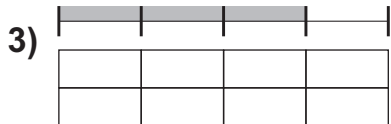
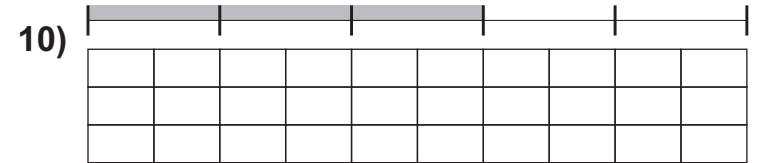
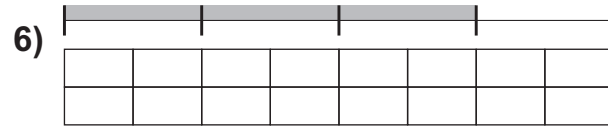
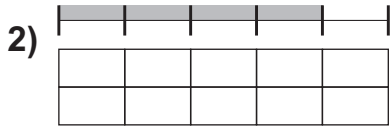
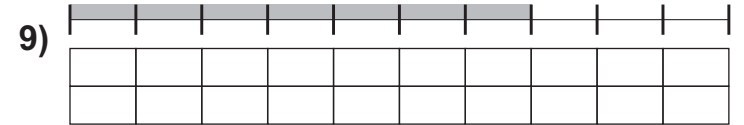
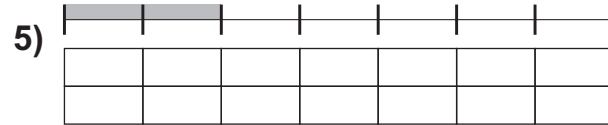
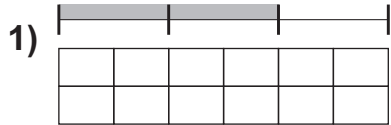




example:

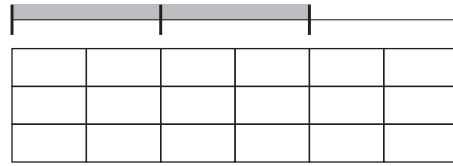


$$\frac{2}{3} \text{ of } 18 = 12$$

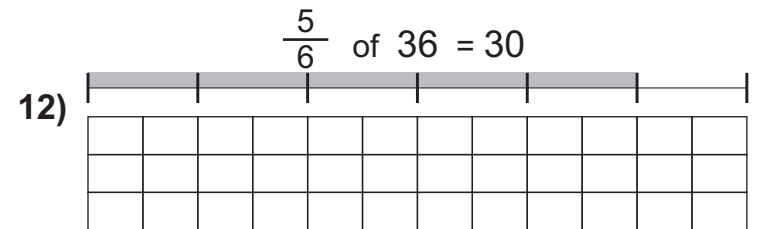
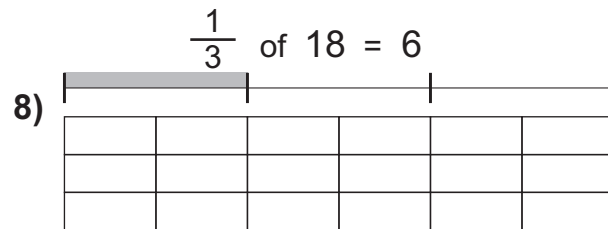
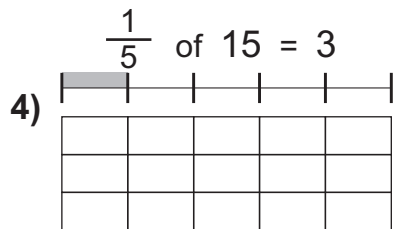
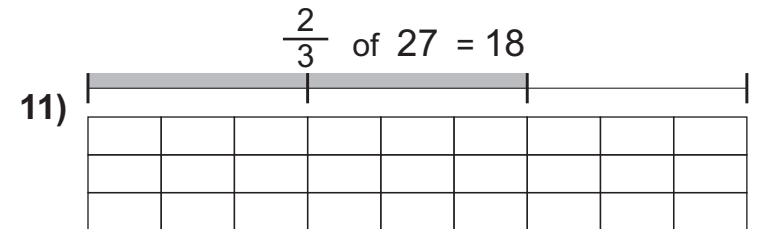
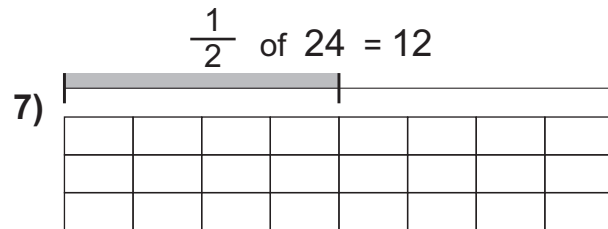
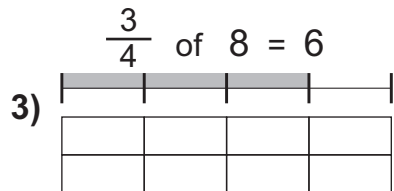
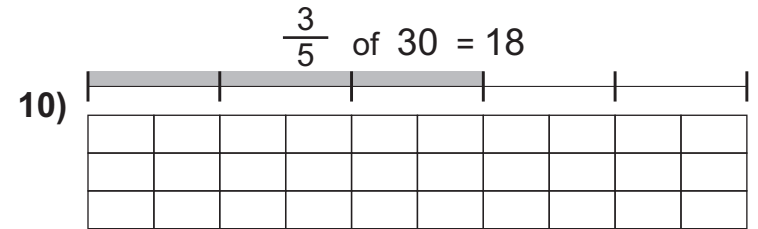
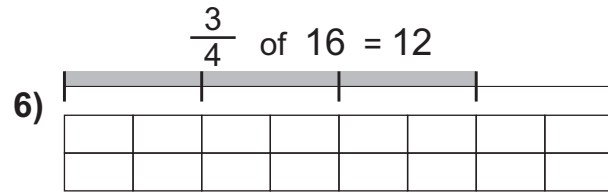
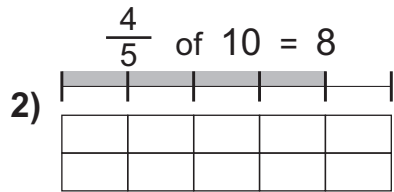
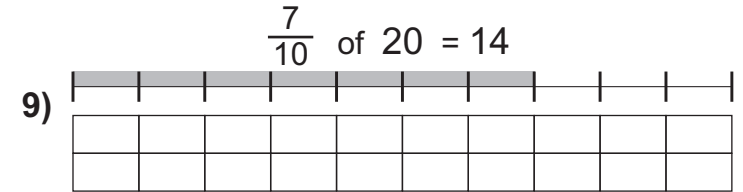
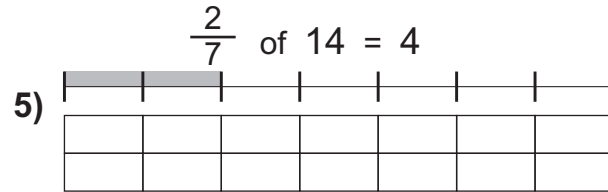
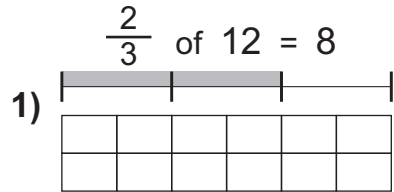




example:



$$\frac{2}{3} \text{ of } 18 = 12$$

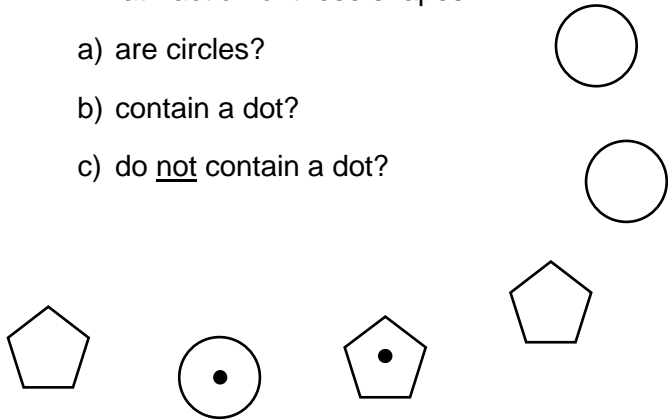


Simplify your answers wherever possible

1 a) $\frac{3}{6} = \frac{1}{2}$

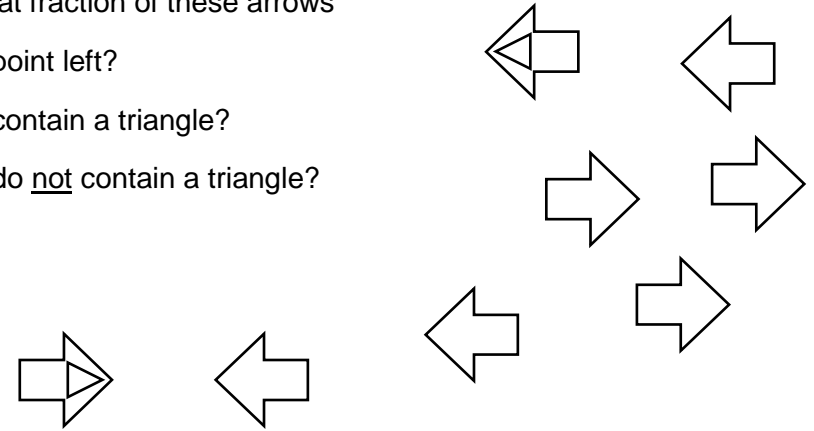
1 What fraction of these shapes

- a) are circles?
- b) contain a dot?
- c) do not contain a dot?



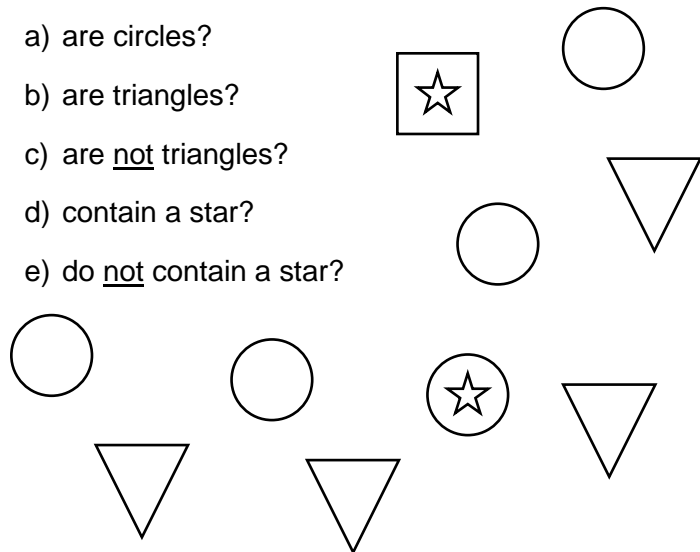
2 What fraction of these arrows

- a) point left?
- b) contain a triangle?
- c) do not contain a triangle?



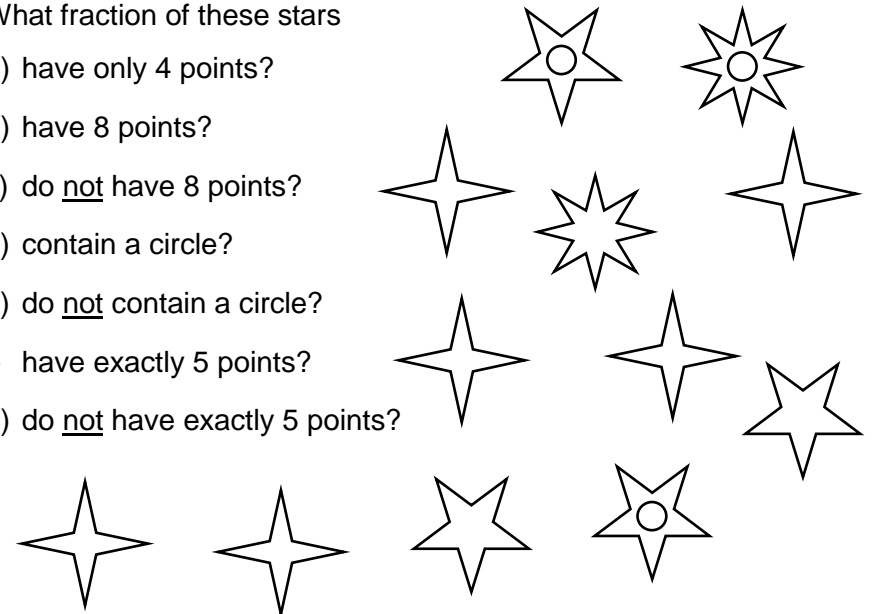
3 What fraction of these shapes

- a) are circles?
- b) are triangles?
- c) are not triangles?
- d) contain a star?
- e) do not contain a star?



4 What fraction of these stars

- a) have only 4 points?
- b) have 8 points?
- c) do not have 8 points?
- d) contain a circle?
- e) do not contain a circle?
- f) have exactly 5 points?
- g) do not have exactly 5 points?



 Equivalent Fractions 1 

1 a) $\frac{3}{6} = \frac{1}{2}$

2 a) $\frac{4}{8} = \frac{1}{2}$

3 a) $\frac{5}{10} = \frac{1}{2}$

4 a) $\frac{6}{12} = \frac{1}{2}$

b) $\frac{2}{6} = \frac{1}{3}$

b) $\frac{2}{8} = \frac{1}{4}$

b) $\frac{4}{10} = \frac{2}{5}$

b) $\frac{2}{12} = \frac{1}{6}$

c) $\frac{4}{6} = \frac{2}{3}$

c) $\frac{6}{8} = \frac{3}{4}$

c) $\frac{6}{10} = \frac{3}{5}$

c) $\frac{10}{12} = \frac{5}{6}$

d) $\frac{2}{10} = \frac{1}{5}$

d) $\frac{3}{12} = \frac{1}{4}$

e) $\frac{8}{10} = \frac{4}{5}$

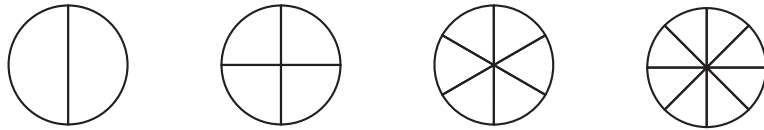
e) $\frac{9}{12} = \frac{3}{4}$

f) $\frac{4}{12} = \frac{1}{3}$

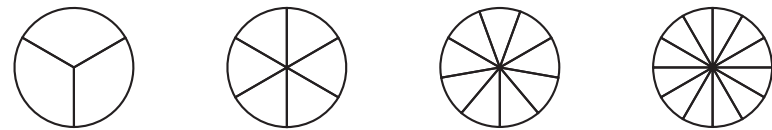
g) $\frac{8}{12} = \frac{2}{3}$

Equivalent Fractions 2

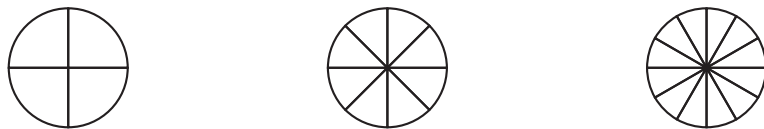
1) Shade in $\frac{1}{2}$ of each of these circles.



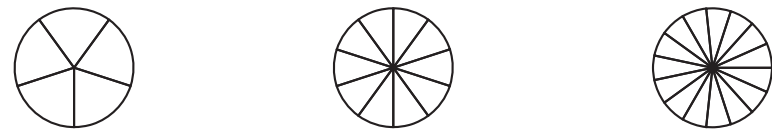
2) Shade in $\frac{1}{3}$ of each of these circles.



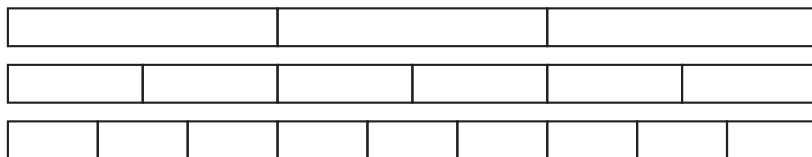
3) Shade in $\frac{1}{4}$ of each of these circles.



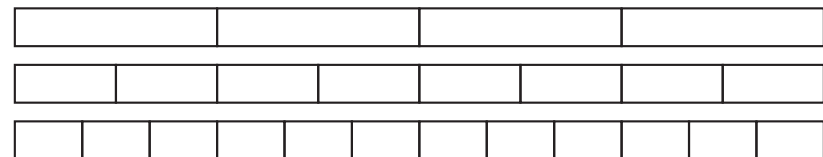
4) Shade in $\frac{1}{5}$ of each of these circles.



5) Shade in $\frac{2}{3}$ of each of these strips.



6) Shade in $\frac{3}{4}$ of each of these strips.



7) Shade in $\frac{2}{5}$ of each of these strips.

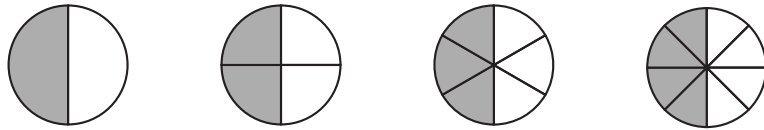


8) Shade in $\frac{4}{5}$ of each of these strips.

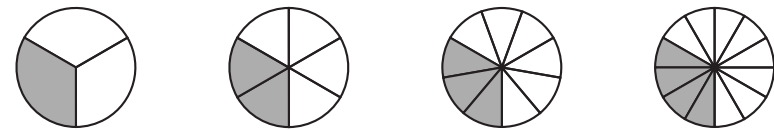


Equivalent Fractions 2

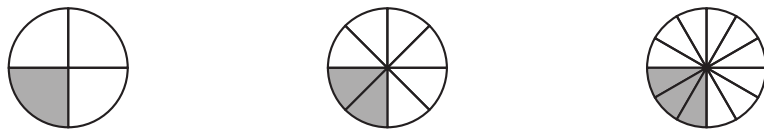
1) Shade in $\frac{1}{2}$ of each of these circles.



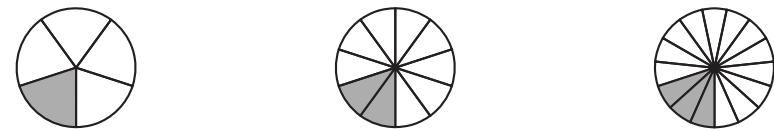
2) Shade in $\frac{1}{3}$ of each of these circles.



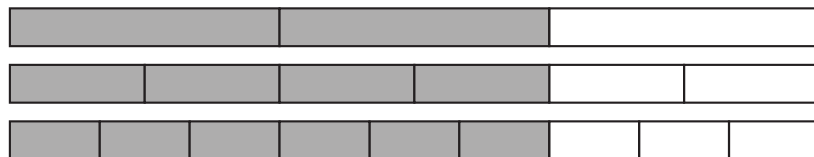
3) Shade in $\frac{1}{4}$ of each of these circles.



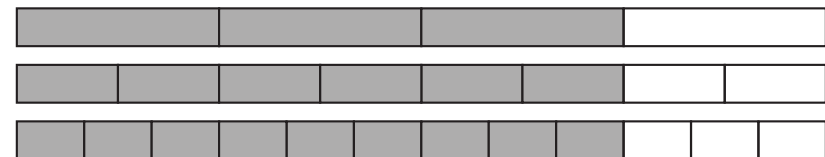
4) Shade in $\frac{1}{5}$ of each of these circles.



5) Shade in $\frac{2}{3}$ of each of these strips.



6) Shade in $\frac{3}{4}$ of each of these strips.



7) Shade in $\frac{2}{5}$ of each of these strips.



8) Shade in $\frac{4}{5}$ of each of these strips.

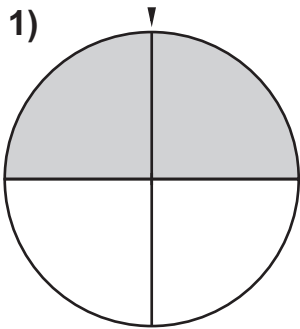


a) What fractions do these shaded circles show (how much is shaded)? Write your answers in the boxes on the left below each circle.

b) Draw new lines from the centre of each circle to the points on the circumference below the markers. What "new" fraction does each circle show now? Write your answer in the second box.

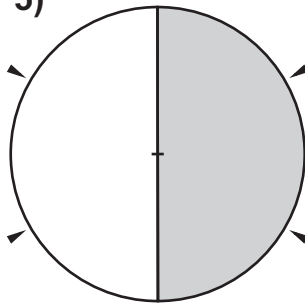
Question 1 has been completed as an example...

1)



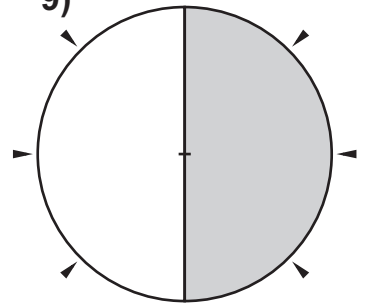
$$\frac{1}{2} = \frac{2}{4}$$

5)



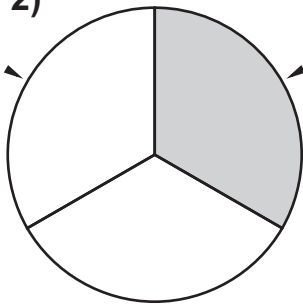
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

9)



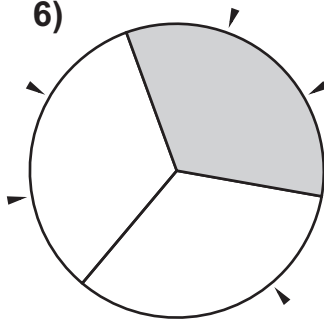
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

2)



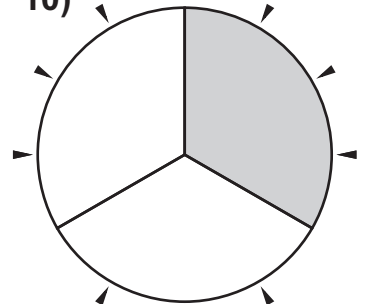
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

6)



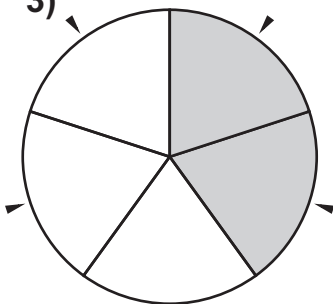
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

10)



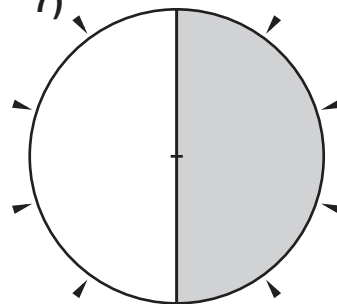
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

3)



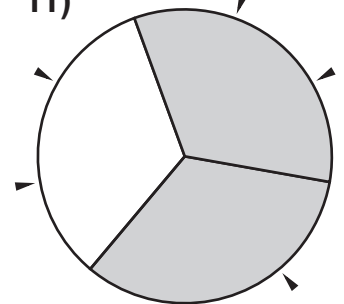
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

7)



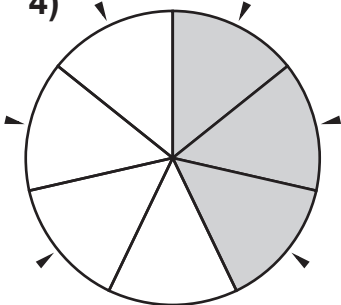
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

11)



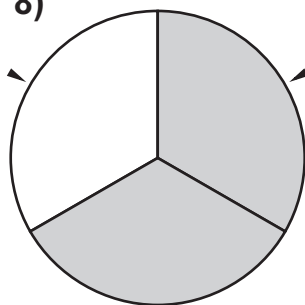
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

4)



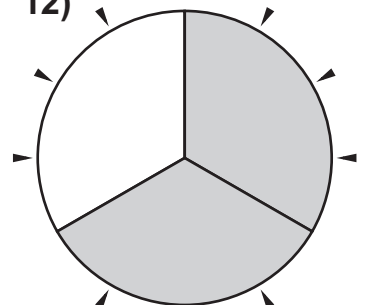
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

8)



$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

12)



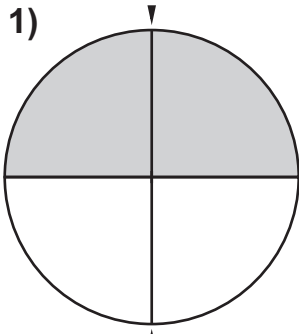
$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

a) What fractions do these shaded circles show (how much is shaded)? Write your answers in the boxes on the left below each circle.

b) Draw new lines from the centre of each circle to the points on the circumference below the markers. What "new" fraction does each circle show now? Write your answer in the second box.

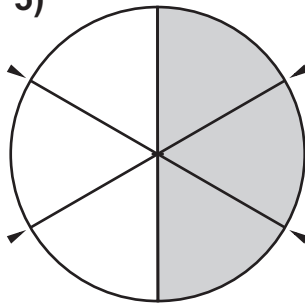
Question 1 has been completed as an example...

1)



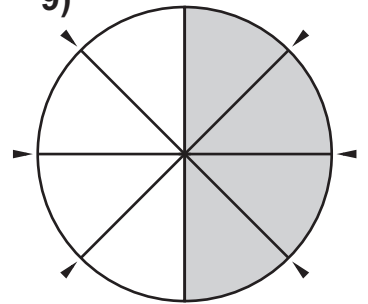
$$\frac{1}{2} = \frac{2}{4}$$

5)



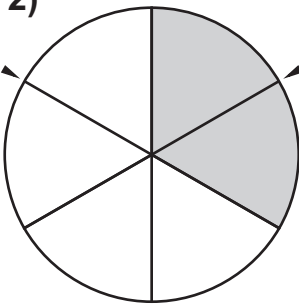
$$\frac{1}{2} = \frac{3}{6}$$

9)



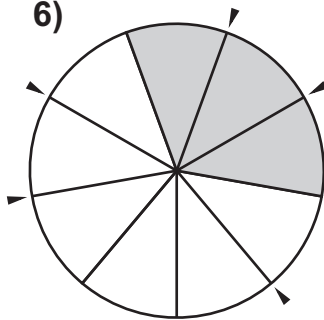
$$\frac{1}{2} = \frac{4}{8}$$

2)



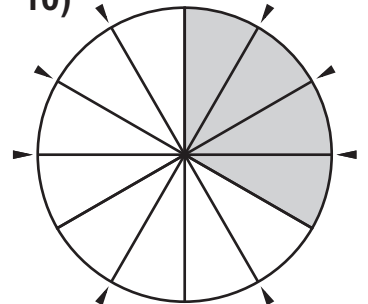
$$\frac{1}{3} = \frac{2}{6}$$

6)



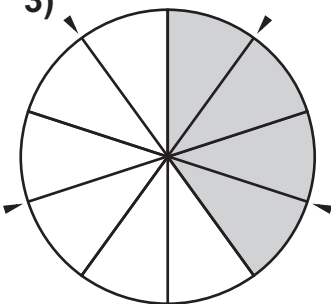
$$\frac{1}{3} = \frac{3}{9}$$

10)



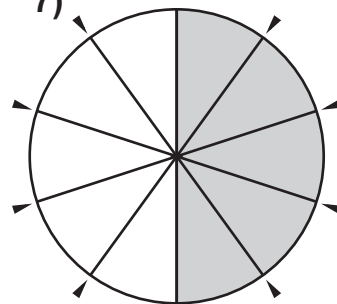
$$\frac{1}{3} = \frac{4}{12}$$

3)



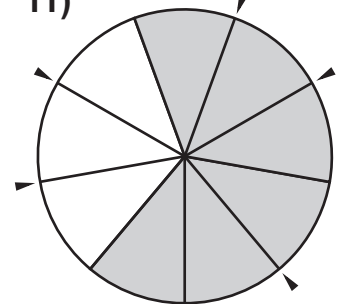
$$\frac{2}{5} = \frac{4}{10}$$

7)



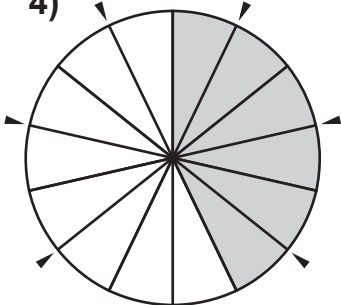
$$\frac{1}{2} = \frac{5}{10}$$

11)



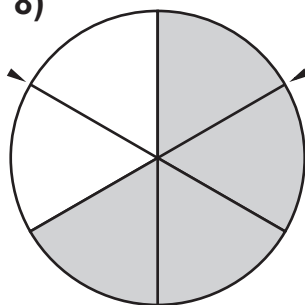
$$\frac{2}{3} = \frac{6}{9}$$

4)



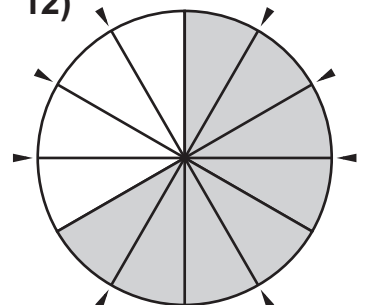
$$\frac{3}{7} = \frac{6}{14}$$

8)



$$\frac{2}{3} = \frac{4}{6}$$

12)

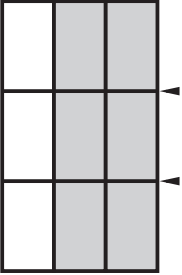


$$\frac{2}{3} = \frac{8}{12}$$

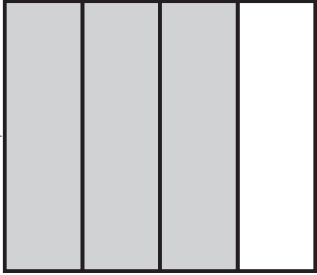
a) What fractions do these shaded blocks show (how much is shaded)? Write your answers in the boxes on the left below each block.

b) Draw new horizontal lines across the blocks at the points indicated by the markers. What "new" fraction does each block show now? Write your answer in the second box.

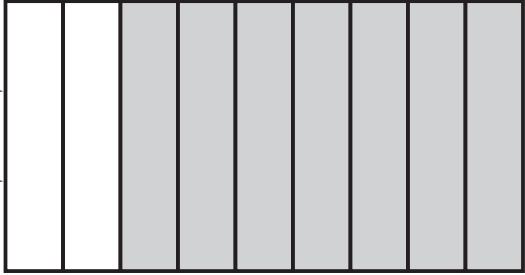
Question 1 has been completed as an example...

1) 

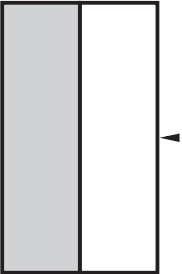
$\frac{2}{3} = \frac{6}{9}$

5) 

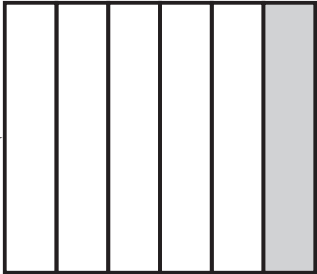
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

9) 

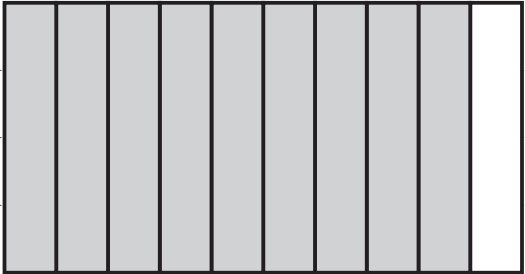
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

2) 

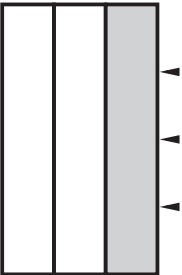
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

6) 

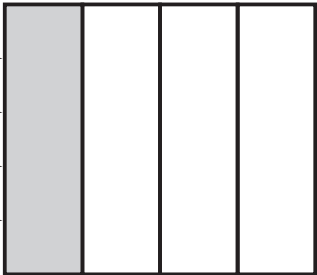
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

10) 

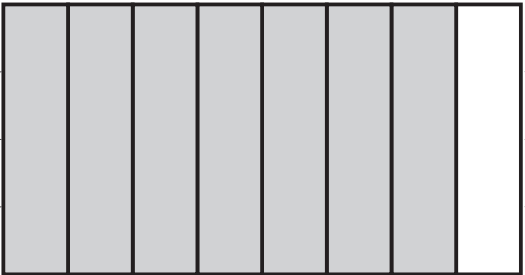
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

3) 

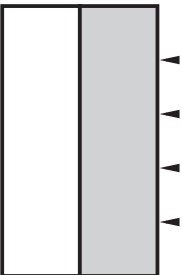
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

7) 

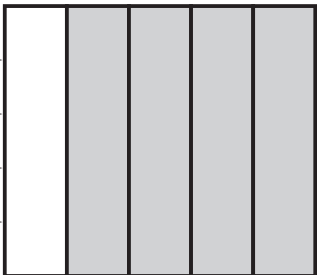
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

11) 

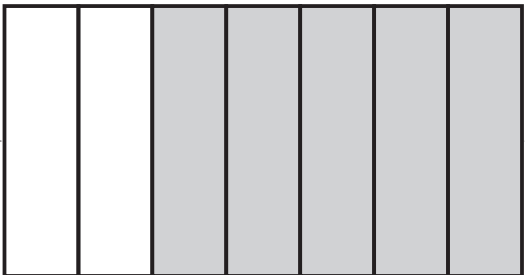
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

4) 

$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

8) 

$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

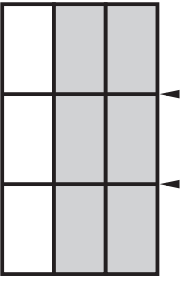
12) 

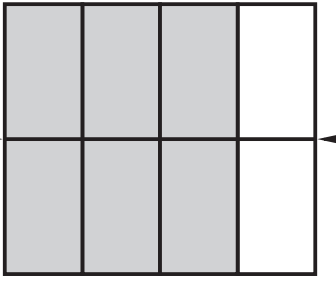
$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

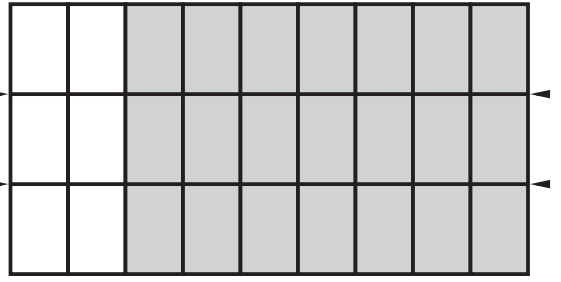
a) What fractions do these shaded blocks show (how much is shaded)? Write your answers in the boxes on the left below each block.

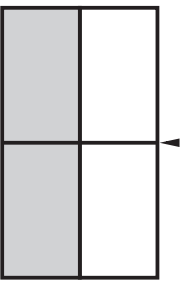
b) Draw new horizontal lines across the blocks at the points indicated by the markers. What "new" fraction does each block show now? Write your answer in the second box.

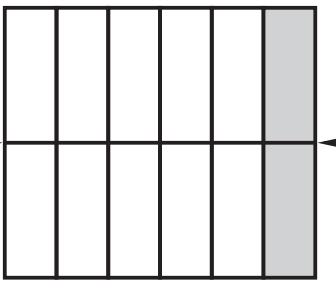
Question 1 has been completed as an example...

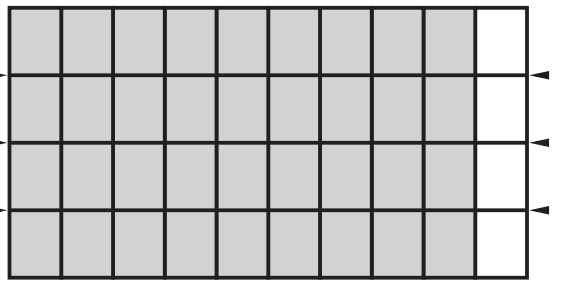
1)  $\frac{2}{3} = \frac{6}{9}$

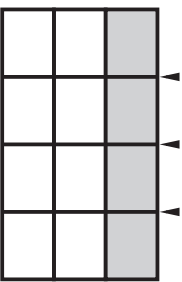
5)  $\frac{3}{4} = \frac{6}{8}$

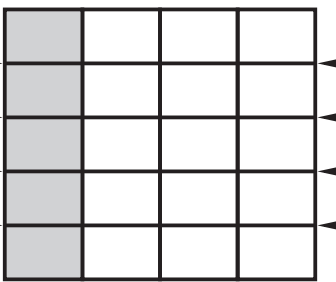
9)  $\frac{7}{9} = \frac{21}{27}$

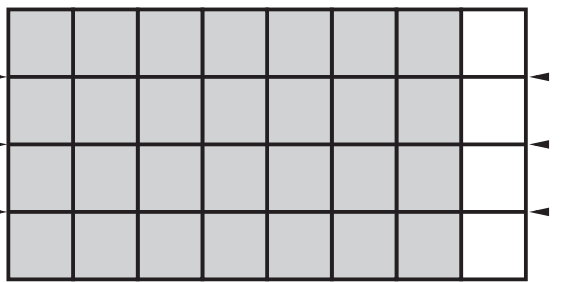
2)  $\frac{1}{2} = \frac{2}{4}$

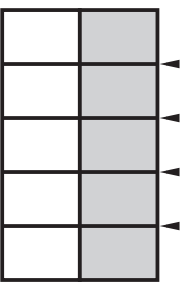
6)  $\frac{1}{6} = \frac{2}{12}$

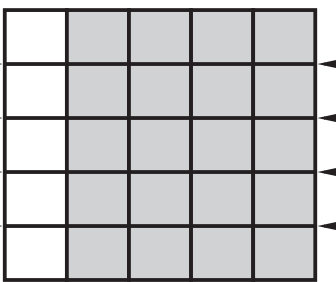
10)  $\frac{9}{10} = \frac{36}{40}$

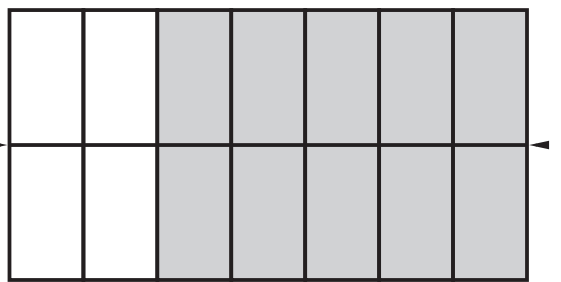
3)  $\frac{1}{3} = \frac{4}{12}$

7)  $\frac{1}{4} = \frac{5}{20}$

11)  $\frac{7}{8} = \frac{28}{32}$

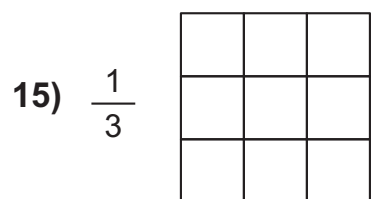
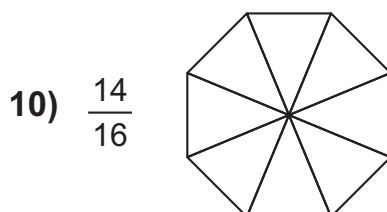
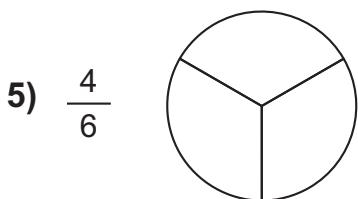
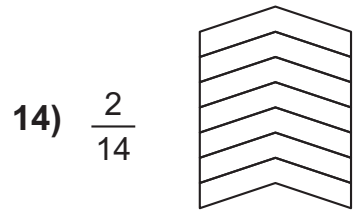
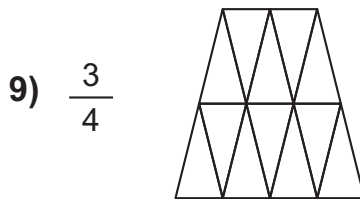
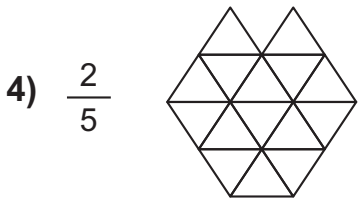
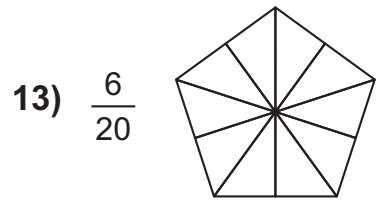
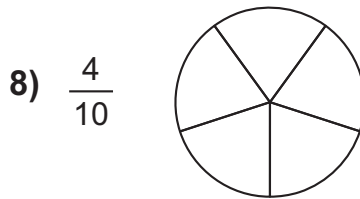
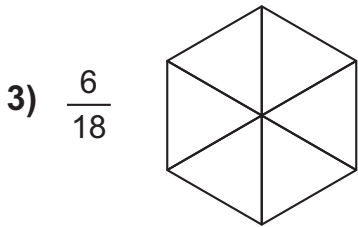
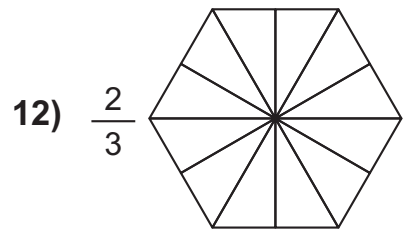
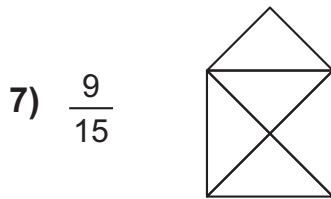
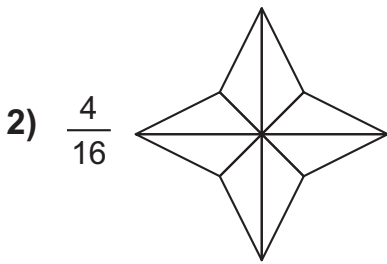
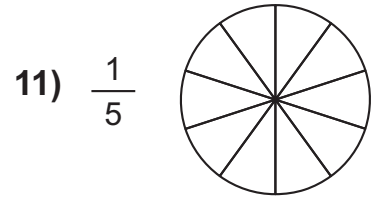
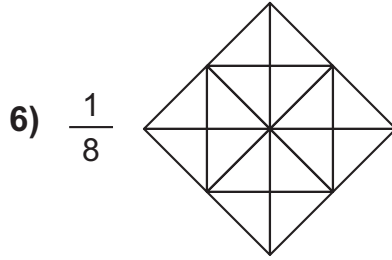
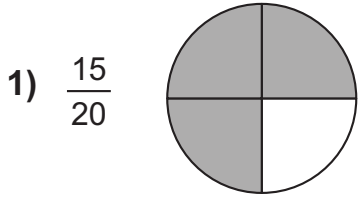
4)  $\frac{1}{2} = \frac{5}{10}$

8)  $\frac{4}{5} = \frac{20}{25}$

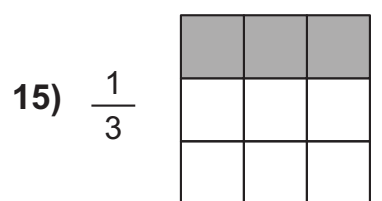
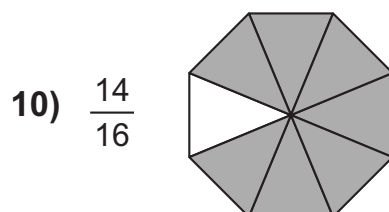
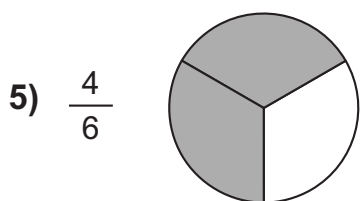
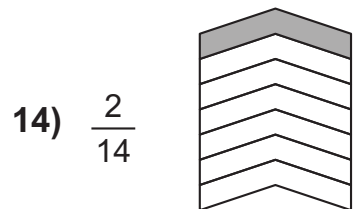
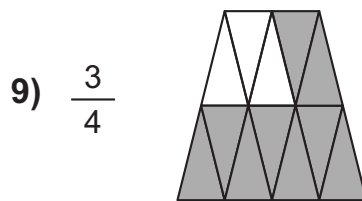
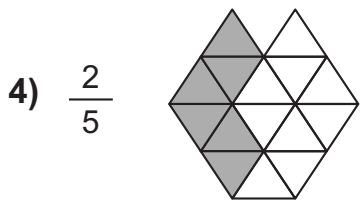
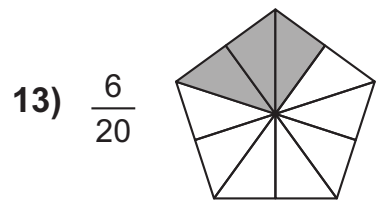
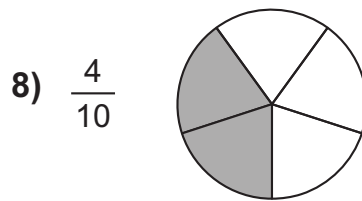
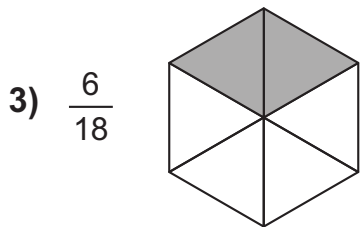
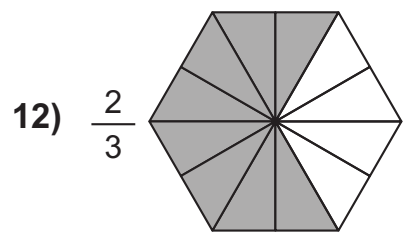
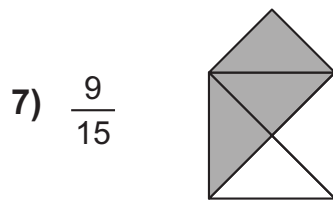
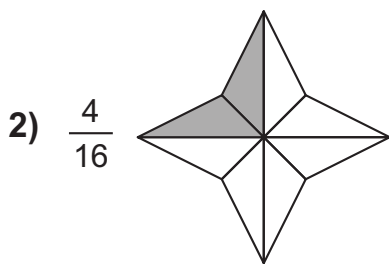
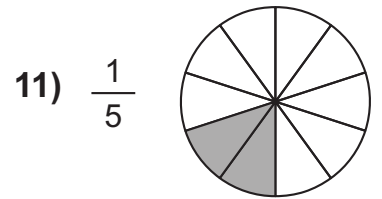
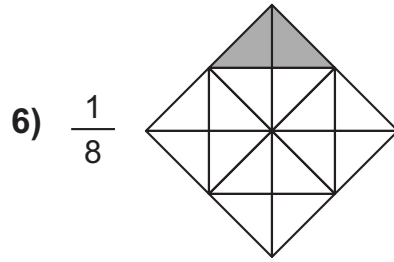
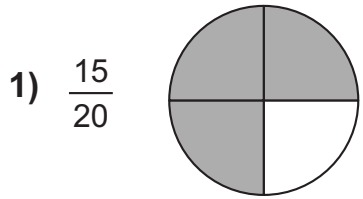
12)  $\frac{5}{7} = \frac{10}{14}$

Equivalent Fractions 3

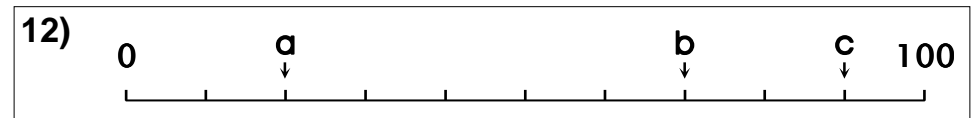
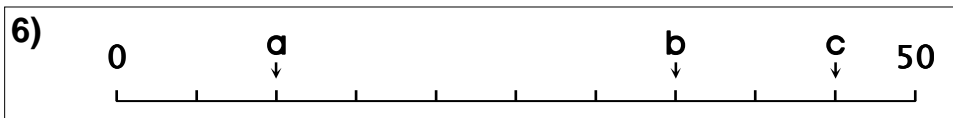
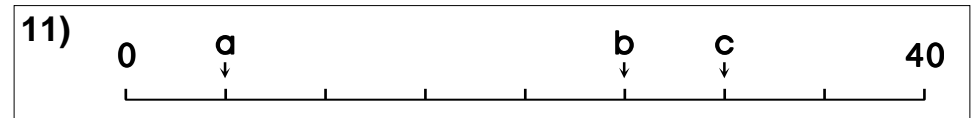
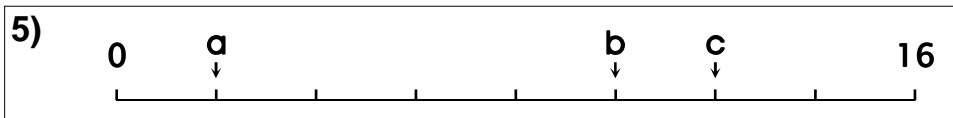
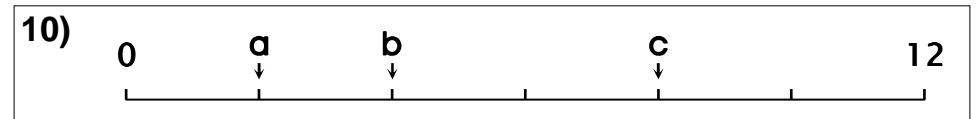
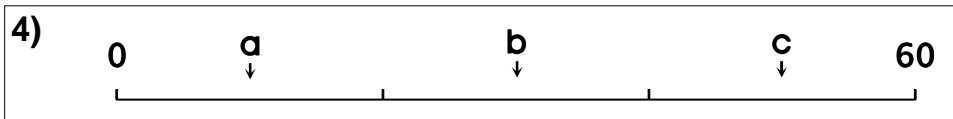
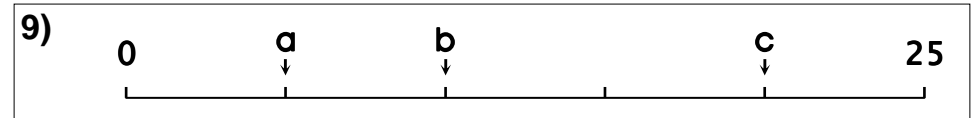
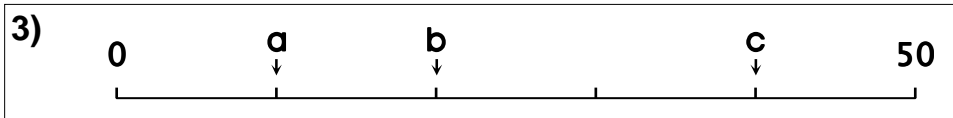
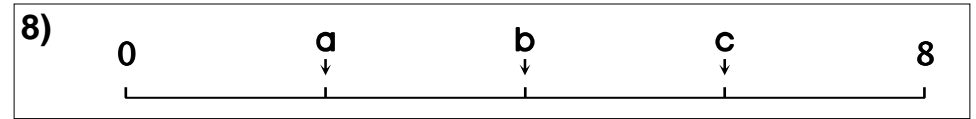
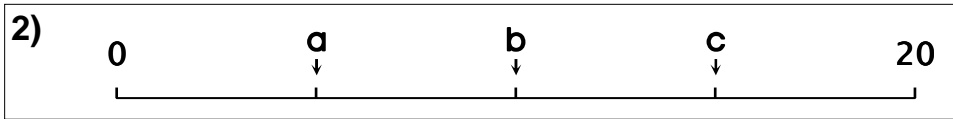
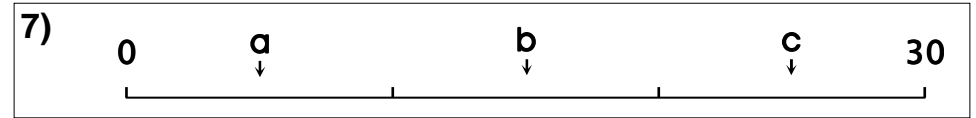
The first shape has been shaded for you.



◊ Equivalent Fractions 3 ◻



1a) 1





Unusual Linear Scales 1



1a) 1

b) 2

c) 4

7a) 5

b) 15

c) 25

2a) 5

b) 10

c) 15

8a) 2

b) 4

c) 6

3a) 10

b) 20

c) 40

9a) 5

b) 10

c) 20

4a) 10

b) 30

c) 50

10a) 2

b) 4

c) 8

5a) 2

b) 10

c) 12

11a) 5

b) 25

c) 30

6a) 10

b) 35

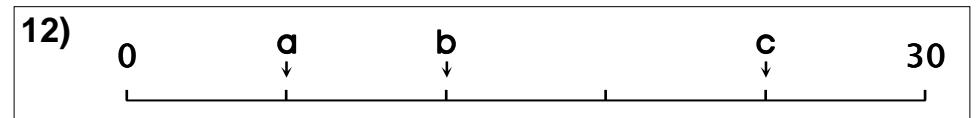
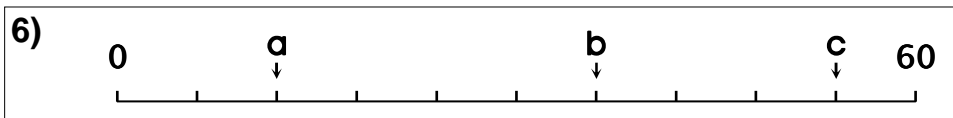
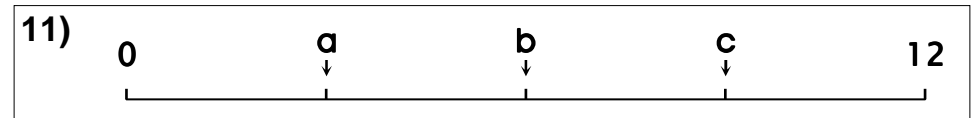
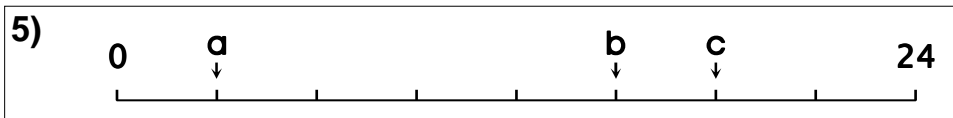
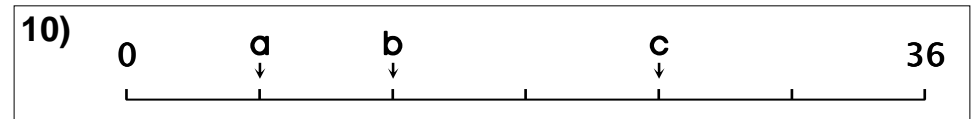
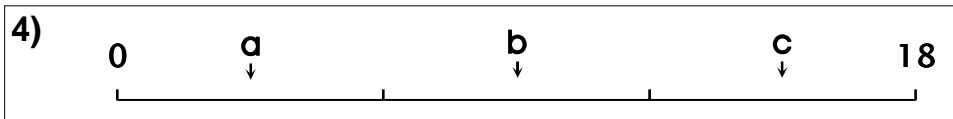
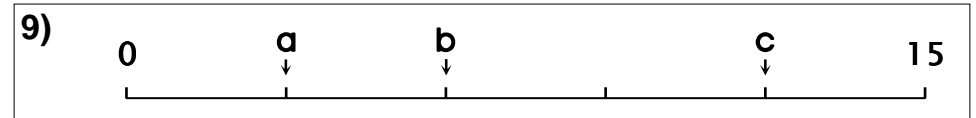
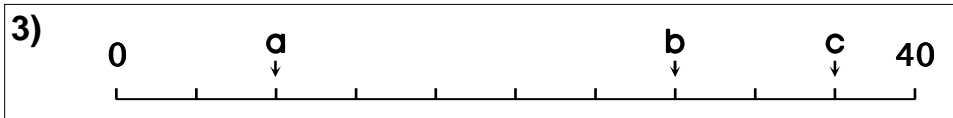
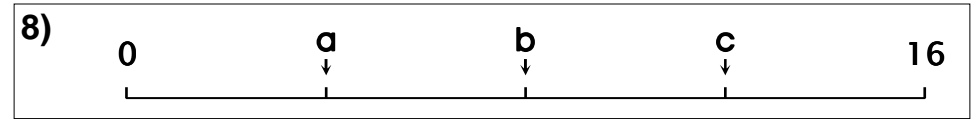
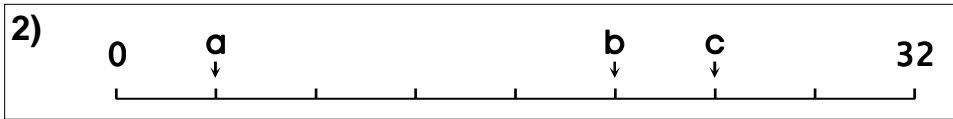
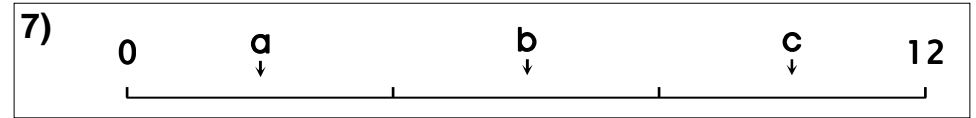
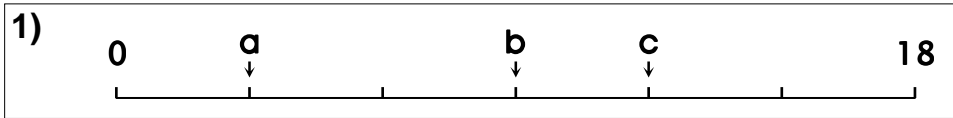
c) 45

12a) 20

b) 70

c) 90

1a) 3





Unusual Linear Scales 2



1a) 3 b) 9 c) 12

7a) 2 b) 6 c) 10

2a) 4 b) 20 c) 24

8a) 4 b) 8 c) 12

3a) 8 b) 28 c) 36

9a) 3 b) 6 c) 12

4a) 3 b) 9 c) 15

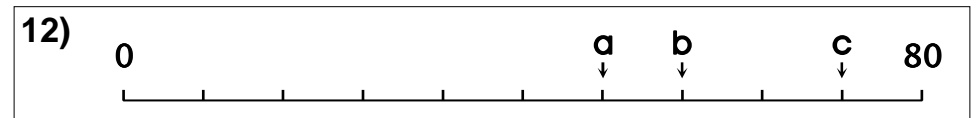
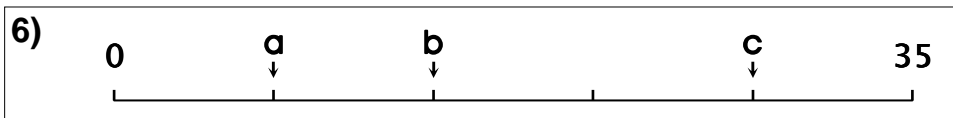
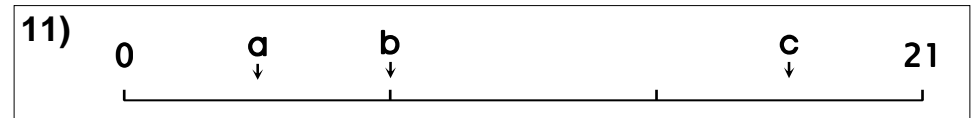
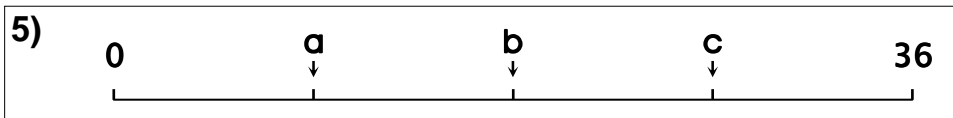
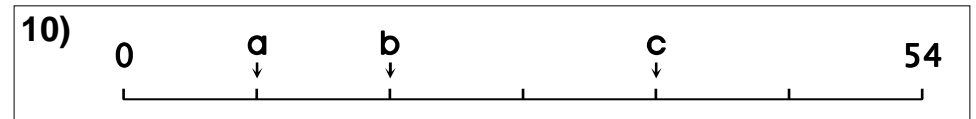
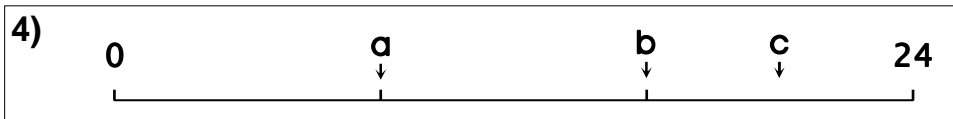
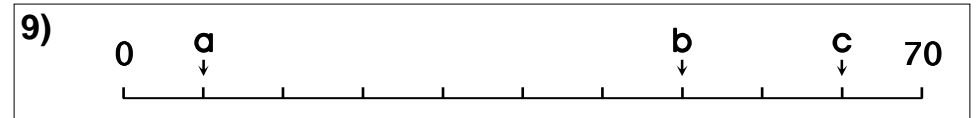
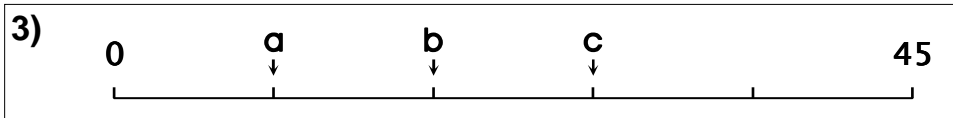
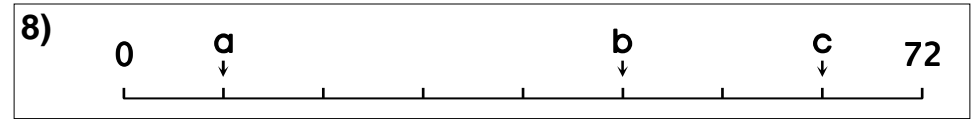
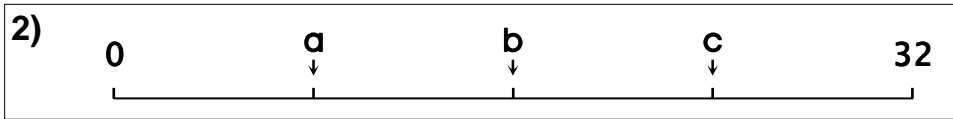
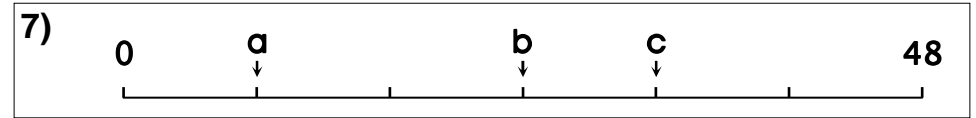
10a) 6 b) 12 c) 24

5a) 3 b) 15 c) 18

11a) 3 b) 6 c) 9

6a) 12 b) 36 c) 54

12a) 6 b) 12 c) 24





Unusual Linear Scales 3



1a) 7 b) 21 c) 42

7a) 8 b) 24 c) 32

2a) 8 b) 16 c) 24

8a) 9 b) 45 c) 63

3a) 9 b) 18 c) 27

9a) 7 b) 49 c) 63

4a) 8 b) 16 c) 20

10a) 9 b) 18 c) 36

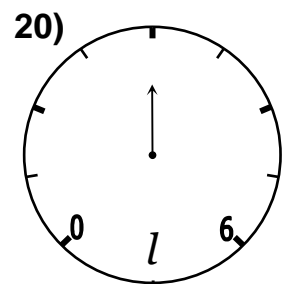
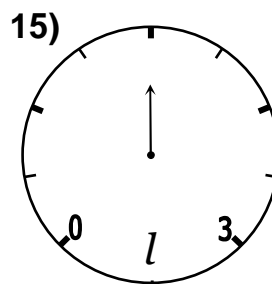
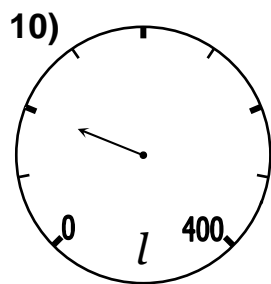
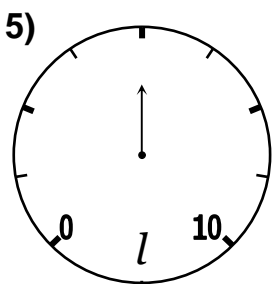
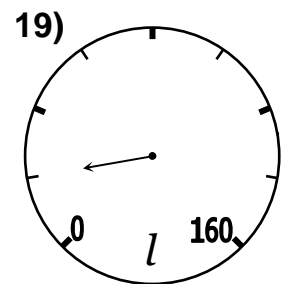
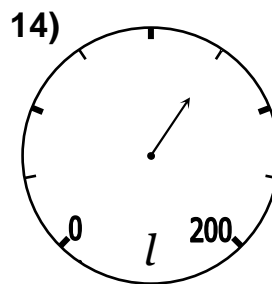
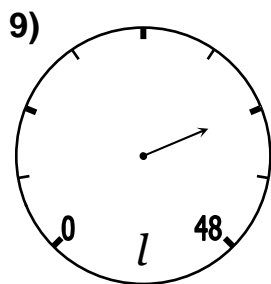
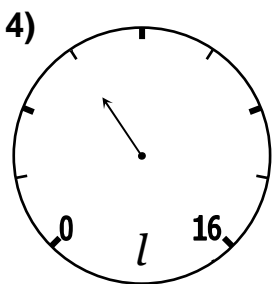
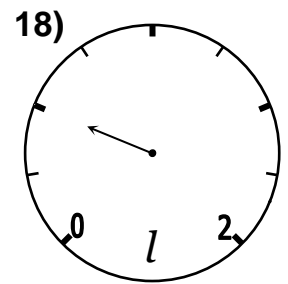
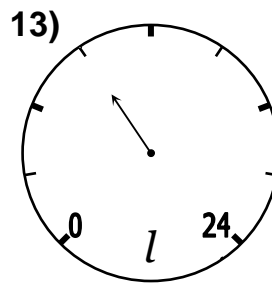
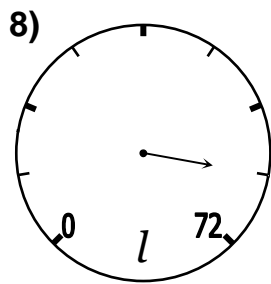
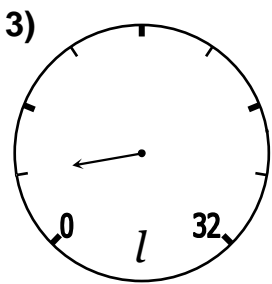
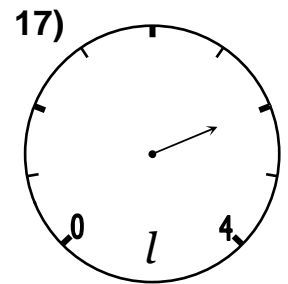
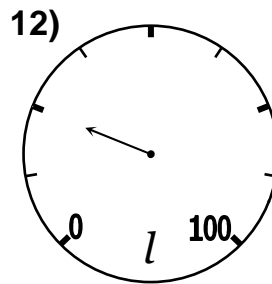
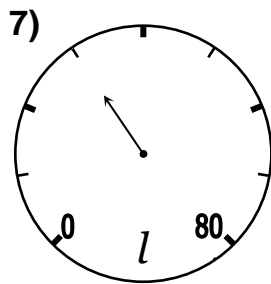
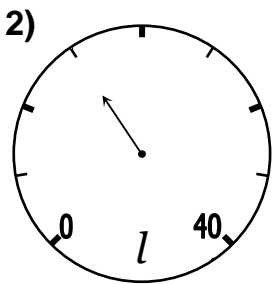
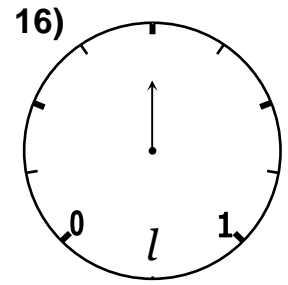
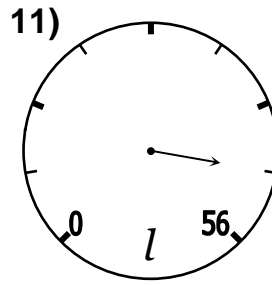
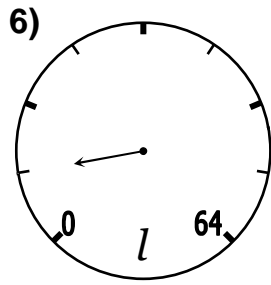
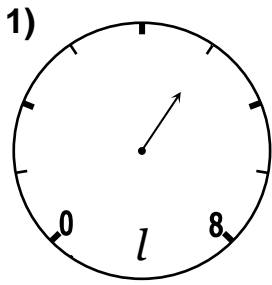
5a) 9 b) 18 c) 27

11a) 3.5 b) 7 c) 17.5

6a) 7 b) 14 c) 28

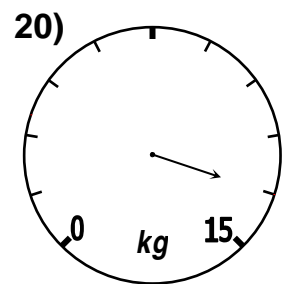
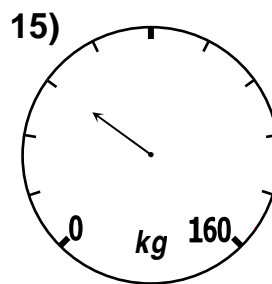
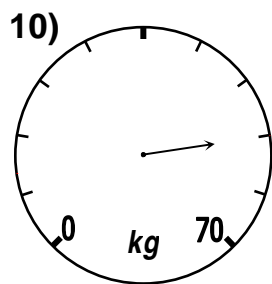
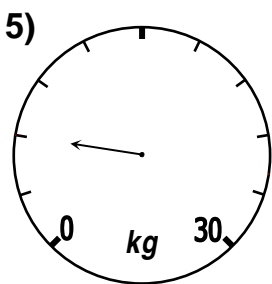
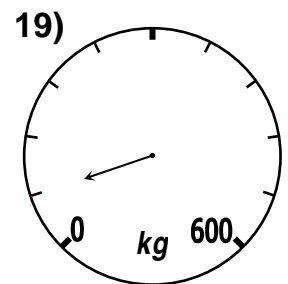
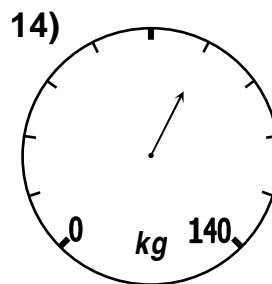
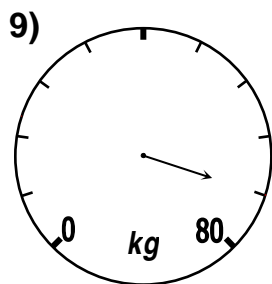
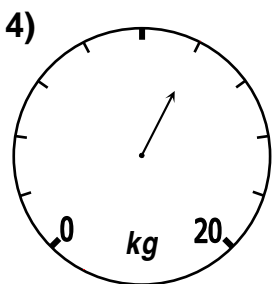
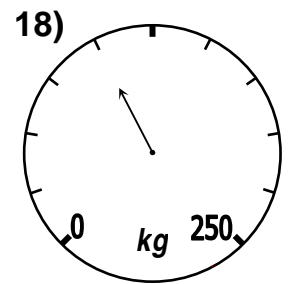
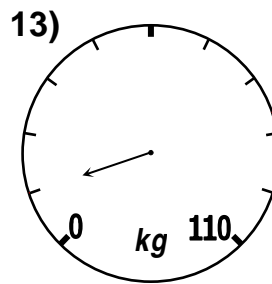
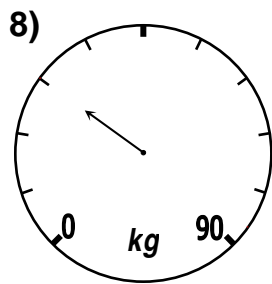
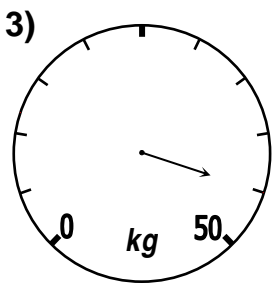
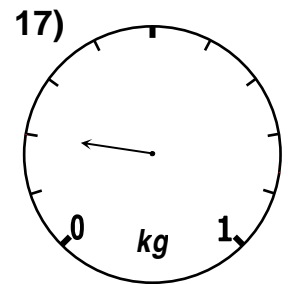
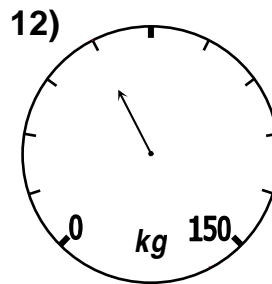
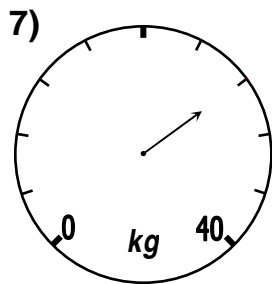
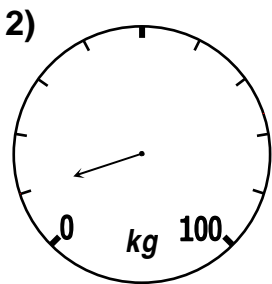
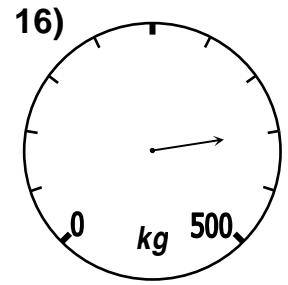
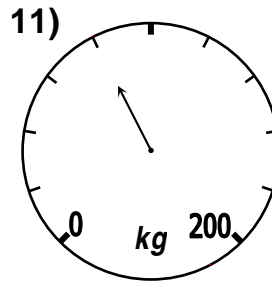
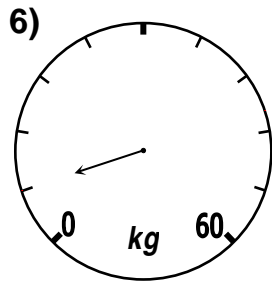
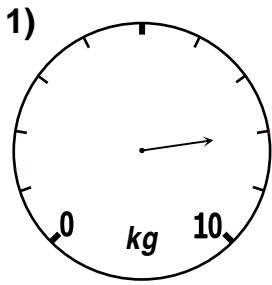
12a) 48 b) 56 c) 72

What volume do the following scales indicate? 1) 5 l



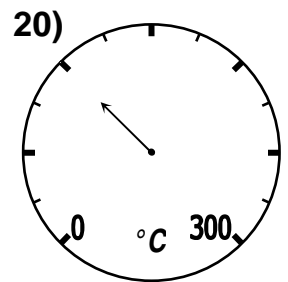
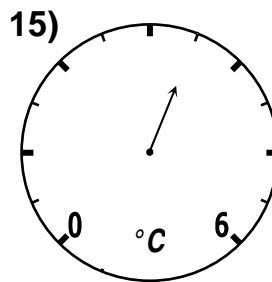
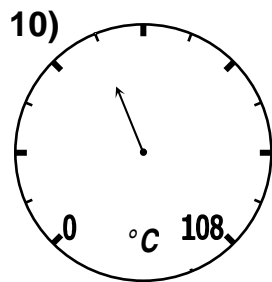
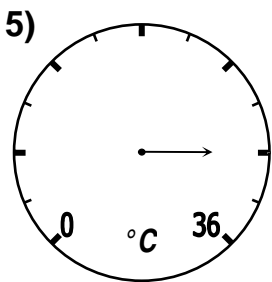
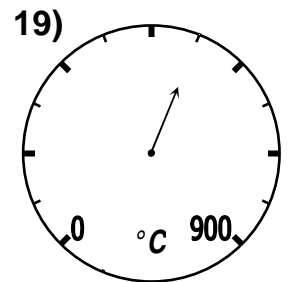
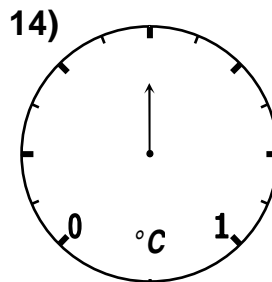
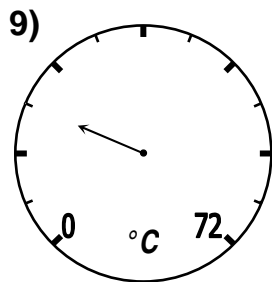
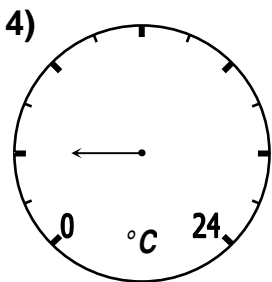
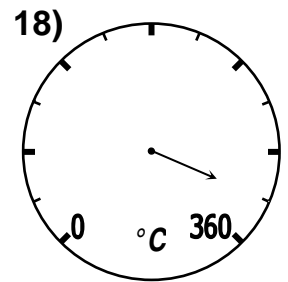
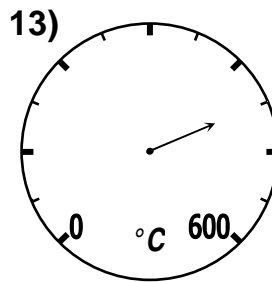
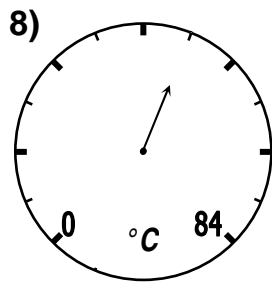
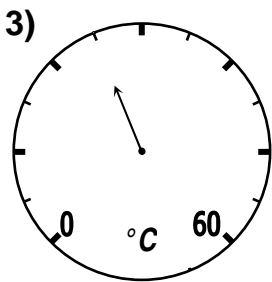
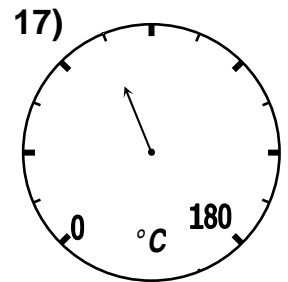
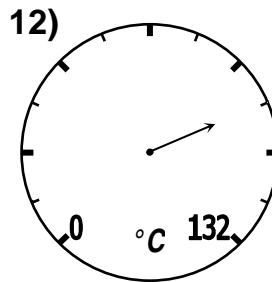
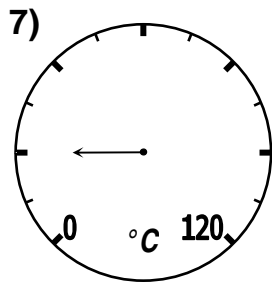
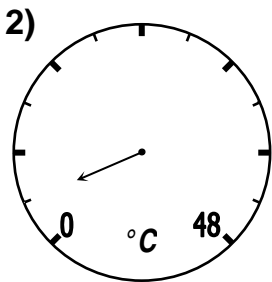
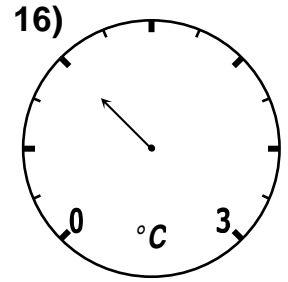
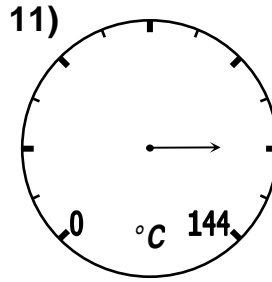
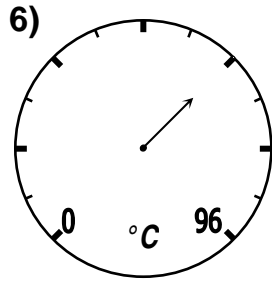
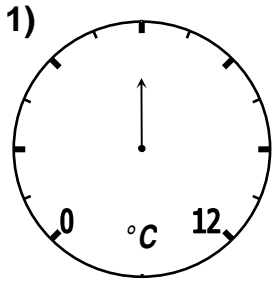
Unusual Dials (Weight) ■

What weight do the following scales indicate?



■

What temperature do the following scales indicate?



Unusual Dials (Volume)



Unusual Dials (Weight)



Unusual Dials (Temperature)

1) 5 l	11) 49 l	1) 8 kg	11) 80 kg	1) 6 °C	11) 120 °C
2) 15 l	12) 25 l	2) 10 kg	12) 60 kg	2) 4 °C	12) 99 °C
3) 4 l	13) 9 l	3) 45 kg	13) 11 kg	3) 25 °C	13) 450 °C
4) 6 l	14) 125 l	4) 12 kg	14) 84 kg	4) 4 °C	14) 0.5 °C
5) 5 l	15) 1.5 l	5) 6 kg	15) 48 kg	5) 30 °C	15) 3.5 °C
6) 8 l	16) 0.5 l	6) 6 kg	16) 400 kg	6) 64 °C	16) 1 °C
7) 30 l	17) 3 l	7) 28 kg	17) 0.2 kg	7) 20 °C	17) 75 °C
8) 63 l	18) 0.5 l	8) 27 kg	18) 100 kg	8) 49 °C	18) 330 °C
9) 36 l	19) 20 l	9) 72 kg	19) 60 kg	9) 18 °C	19) 525 °C
10) 100 l	20) 3 l	10) 56 kg	20) 13.5 kg	10) 45 °C	20) 100 °C



1) $\frac{1}{2} \times 10 = 5$

11) $\frac{1}{2} \times 120 =$

21) $\frac{1}{7} \times 49 =$

2) $\frac{1}{3} \times 27 =$

12) $\frac{2}{3} \times 24 =$

22) $\frac{2}{3} \times 12 =$

3) $\frac{3}{4} \times 48 =$

13) $\frac{1}{4} \times 28 =$

23) $\frac{1}{8} \times 56 =$

4) $\frac{1}{2} \times 28 =$

14) $\frac{1}{5} \times 60 =$

24) $\frac{1}{10} \times 90 =$

5) $\frac{1}{5} \times 80 =$

15) $\frac{1}{3} \times 18 =$

25) $\frac{1}{6} \times 18 =$

6) $\frac{1}{3} \times 21 =$

16) $\frac{1}{4} \times 100 =$

26) $\frac{1}{8} \times 64 =$

7) $\frac{2}{3} \times 15 =$

17) $\frac{3}{4} \times 20 =$

27) $\frac{1}{7} \times 35 =$

8) $\frac{1}{5} \times 35 =$

18) $\frac{1}{4} \times 32 =$

28) $\frac{1}{10} \times 70 =$

9) $\frac{1}{6} \times 48 =$

19) $\frac{1}{6} \times 36 =$

29) $\frac{1}{8} \times 200 =$

10) $\frac{1}{7} \times 14 =$

20) $\frac{1}{10} \times 300 =$

30) $\frac{3}{4} \times 200 =$



1) $\frac{1}{2} \times 10 = 5$

11) $\frac{1}{2} \times 120 = 60$

21) $\frac{1}{7} \times 49 = 7$

2) $\frac{1}{3} \times 27 = 9$

12) $\frac{2}{3} \times 24 = 16$

22) $\frac{2}{3} \times 12 = 8$

3) $\frac{3}{4} \times 48 = 36$

13) $\frac{1}{4} \times 28 = 7$

23) $\frac{1}{8} \times 56 = 7$

4) $\frac{1}{2} \times 28 = 14$

14) $\frac{1}{5} \times 60 = 12$

24) $\frac{1}{10} \times 90 = 9$

5) $\frac{1}{5} \times 80 = 16$

15) $\frac{1}{3} \times 18 = 6$

25) $\frac{1}{6} \times 18 = 3$

6) $\frac{1}{3} \times 21 = 7$

16) $\frac{1}{4} \times 100 = 25$

26) $\frac{1}{8} \times 64 = 8$

7) $\frac{2}{3} \times 15 = 10$

17) $\frac{3}{4} \times 20 = 15$

27) $\frac{1}{7} \times 35 = 5$

8) $\frac{1}{5} \times 35 = 7$

18) $\frac{1}{4} \times 32 = 8$

28) $\frac{1}{10} \times 70 = 7$

9) $\frac{1}{6} \times 48 = 8$

19) $\frac{1}{6} \times 36 = 6$

29) $\frac{1}{8} \times 200 = 25$

10) $\frac{1}{7} \times 14 = 2$

20) $\frac{1}{10} \times 300 = 30$

30) $\frac{3}{4} \times 200 = 150$



1) $\frac{2}{5} \times 50 = 20$

11) $\frac{3}{5} \times 90 =$

21) $\frac{5}{6} \times 90 =$

2) $\frac{3}{5} \times 70 =$

12) $\frac{4}{5} \times 55 =$

22) $\frac{7}{10} \times 200 =$

3) $\frac{2}{7} \times 35 =$

13) $\frac{3}{10} \times 100 =$

23) $\frac{4}{7} \times 28 =$

4) $\frac{4}{7} \times 63 =$

14) $\frac{5}{7} \times 49 =$

24) $\frac{2}{9} \times 90 =$

5) $\frac{5}{8} \times 16 =$

15) $\frac{3}{8} \times 24 =$

25) $\frac{1}{9} \times 63 =$

6) $\frac{3}{7} \times 35 =$

16) $\frac{2}{5} \times 70 =$

26) $\frac{2}{9} \times 54 =$

7) $\frac{9}{10} \times 60 =$

17) $\frac{4}{5} \times 20 =$

27) $\frac{4}{9} \times 27 =$

8) $\frac{3}{8} \times 40 =$

18) $\frac{5}{6} \times 42 =$

28) $\frac{1}{9} \times 36 =$

9) $\frac{4}{9} \times 81 =$

19) $\frac{6}{7} \times 56 =$

29) $\frac{5}{8} \times 88 =$

10) $\frac{3}{10} \times 30 =$

20) $\frac{7}{8} \times 80 =$

30) $\frac{7}{8} \times 144 =$



1) $\frac{2}{5} \times 50 = 20$

11) $\frac{3}{5} \times 90 = 54$

21) $\frac{5}{6} \times 90 = 75$

2) $\frac{3}{5} \times 70 = 42$

12) $\frac{4}{5} \times 55 = 44$

22) $\frac{7}{10} \times 200 = 140$

3) $\frac{2}{7} \times 35 = 10$

13) $\frac{3}{10} \times 100 = 30$

23) $\frac{4}{7} \times 28 = 16$

4) $\frac{4}{7} \times 63 = 36$

14) $\frac{5}{7} \times 49 = 35$

24) $\frac{2}{9} \times 90 = 20$

5) $\frac{5}{8} \times 16 = 10$

15) $\frac{3}{8} \times 24 = 9$

25) $\frac{1}{9} \times 63 = 7$

6) $\frac{3}{7} \times 35 = 15$

16) $\frac{2}{5} \times 70 = 28$

26) $\frac{2}{9} \times 54 = 12$

7) $\frac{9}{10} \times 60 = 54$

17) $\frac{4}{5} \times 20 = 16$

27) $\frac{4}{9} \times 27 = 12$

8) $\frac{3}{8} \times 40 = 15$

18) $\frac{5}{6} \times 42 = 35$

28) $\frac{1}{9} \times 36 = 4$

9) $\frac{4}{9} \times 81 = 36$

19) $\frac{6}{7} \times 56 = 48$

29) $\frac{5}{8} \times 88 = 55$

10) $\frac{3}{10} \times 30 = 9$

20) $\frac{7}{8} \times 80 = 70$

30) $\frac{7}{8} \times 144 = 126$



Write these fractions in their simplest form

1) $\frac{1}{2}$

1) $\frac{2}{4}$

11) $\frac{10}{12}$

21) $\frac{10}{16}$

2) $\frac{3}{6}$

12) $\frac{3}{21}$

22) $\frac{6}{27}$

3) $\frac{5}{15}$

13) $\frac{10}{35}$

23) $\frac{40}{90}$

4) $\frac{6}{9}$

14) $\frac{9}{21}$

24) $\frac{25}{45}$

5) $\frac{2}{8}$

15) $\frac{30}{70}$

25) $\frac{6}{20}$

6) $\frac{3}{12}$

16) $\frac{20}{35}$

26) $\frac{35}{50}$

7) $\frac{2}{10}$

17) $\frac{10}{14}$

27) $\frac{27}{30}$

8) $\frac{3}{15}$

18) $\frac{3}{24}$

28) $\frac{2}{24}$

9) $\frac{10}{25}$

19) $\frac{10}{80}$

29) $\frac{15}{36}$

10) $\frac{3}{18}$

20) $\frac{9}{24}$

30) $\frac{14}{24}$



Write these fractions in their simplest form

1) $\frac{1}{2}$

1) $\frac{1}{2}$

11) $\frac{5}{6}$

21) $\frac{5}{8}$

2) $\frac{1}{2}$

12) $\frac{1}{7}$

22) $\frac{2}{9}$

3) $\frac{1}{3}$

13) $\frac{2}{7}$

23) $\frac{4}{9}$

4) $\frac{2}{3}$

14) $\frac{3}{7}$

24) $\frac{5}{9}$

5) $\frac{1}{4}$

15) $\frac{3}{7}$

25) $\frac{3}{10}$

6) $\frac{1}{4}$

16) $\frac{4}{7}$

26) $\frac{7}{10}$

7) $\frac{1}{5}$

17) $\frac{5}{7}$

27) $\frac{9}{10}$

8) $\frac{1}{5}$

18) $\frac{1}{8}$

28) $\frac{1}{12}$

9) $\frac{2}{5}$

19) $\frac{1}{8}$

29) $\frac{5}{12}$

10) $\frac{1}{6}$

20) $\frac{3}{8}$

30) $\frac{7}{12}$



Write these fractions in their simplest form

1) $\frac{1}{3}$

1) $\frac{6}{18}$

11) $\frac{40}{48}$

21) $\frac{63}{72}$

2) $\frac{8}{12}$

12) $\frac{4}{28}$

22) $\frac{6}{54}$

3) $\frac{18}{24}$

13) $\frac{18}{63}$

23) $\frac{8}{72}$

4) $\frac{21}{28}$

14) $\frac{16}{28}$

24) $\frac{12}{54}$

5) $\frac{12}{30}$

15) $\frac{40}{56}$

25) $\frac{35}{63}$

6) $\frac{12}{20}$

16) $\frac{24}{28}$

26) $\frac{28}{36}$

7) $\frac{21}{35}$

17) $\frac{36}{42}$

27) $\frac{64}{72}$

8) $\frac{28}{35}$

18) $\frac{12}{32}$

28) $\frac{6}{60}$

9) $\frac{32}{40}$

19) $\frac{30}{48}$

29) $\frac{81}{90}$

10) $\frac{6}{36}$

20) $\frac{49}{56}$

30) $\frac{33}{36}$



Write these fractions in their simplest form

1) $\frac{1}{3}$

1) $\frac{1}{3}$

11) $\frac{5}{6}$

21) $\frac{7}{8}$

2) $\frac{2}{3}$

12) $\frac{1}{7}$

22) $\frac{1}{9}$

3) $\frac{3}{4}$

13) $\frac{2}{7}$

23) $\frac{1}{9}$

4) $\frac{3}{4}$

14) $\frac{4}{7}$

24) $\frac{2}{9}$

5) $\frac{2}{5}$

15) $\frac{5}{7}$

25) $\frac{5}{9}$

6) $\frac{3}{5}$

16) $\frac{6}{7}$

26) $\frac{7}{9}$

7) $\frac{3}{5}$

17) $\frac{6}{7}$

27) $\frac{8}{9}$

8) $\frac{4}{5}$

18) $\frac{3}{8}$

28) $\frac{1}{10}$

9) $\frac{4}{5}$

19) $\frac{5}{8}$

29) $\frac{9}{10}$

10) $\frac{1}{6}$

20) $\frac{7}{8}$

30) $\frac{11}{12}$



Simplify your answers as far as possible

1) $\frac{3}{4} + \frac{3}{4} = 1 \frac{1}{2}$

11) $\frac{1}{6} + \frac{5}{6} + \frac{5}{6} =$

2) $\frac{1}{2} + \frac{1}{2} =$

12) $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$

3) $\frac{4}{5} + \frac{3}{5} =$

13) $\frac{3}{4} + \frac{1}{4} + \frac{3}{4} =$

4) $\frac{2}{3} + \frac{2}{3} =$

14) $\frac{5}{9} + \frac{2}{9} + \frac{2}{9} =$

5) $\frac{7}{8} + \frac{7}{8} =$

15) $\frac{4}{7} + \frac{6}{7} + \frac{2}{7} =$

6) $\frac{5}{6} + \frac{5}{6} =$

16) $\frac{11}{12} + \frac{11}{12} + \frac{5}{12} =$

7) $\frac{6}{7} + \frac{4}{7} =$

17) $\frac{2}{3} + \frac{2}{3} + \frac{1}{3} =$

8) $\frac{7}{10} + \frac{9}{10} =$

18) $\frac{4}{5} + \frac{4}{5} + \frac{3}{5} =$

9) $\frac{7}{9} + \frac{5}{9} =$

19) $\frac{7}{8} + \frac{5}{8} + \frac{3}{8} =$

10) $\frac{7}{12} + \frac{1}{12} =$

20) $\frac{7}{10} + \frac{9}{10} + \frac{1}{10} =$



Simplify your answers as far as possible

- | | |
|--|--|
| 1) $\frac{3}{4} + \frac{3}{4} = 1 \frac{1}{2}$ | 11) $\frac{1}{6} + \frac{5}{6} + \frac{5}{6} = 1 \frac{5}{6}$ |
| 2) $\frac{1}{2} + \frac{1}{2} = 1$ | 12) $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 1 \frac{1}{2}$ |
| 3) $\frac{4}{5} + \frac{3}{5} = 1 \frac{2}{5}$ | 13) $\frac{3}{4} + \frac{1}{4} + \frac{3}{4} = 1 \frac{3}{4}$ |
| 4) $\frac{2}{3} + \frac{2}{3} = 1 \frac{1}{3}$ | 14) $\frac{5}{9} + \frac{2}{9} + \frac{2}{9} = 1$ |
| 5) $\frac{7}{8} + \frac{7}{8} = 1 \frac{3}{4}$ | 15) $\frac{4}{7} + \frac{6}{7} + \frac{2}{7} = 1 \frac{5}{7}$ |
| 6) $\frac{5}{6} + \frac{5}{6} = 1 \frac{2}{3}$ | 16) $\frac{11}{12} + \frac{11}{12} + \frac{5}{12} = 2 \frac{1}{4}$ |
| 7) $\frac{6}{7} + \frac{4}{7} = 1 \frac{3}{7}$ | 17) $\frac{2}{3} + \frac{2}{3} + \frac{1}{3} = 1 \frac{2}{3}$ |
| 8) $\frac{7}{10} + \frac{9}{10} = 1 \frac{3}{5}$ | 18) $\frac{4}{5} + \frac{4}{5} + \frac{3}{5} = 2 \frac{1}{5}$ |
| 9) $\frac{7}{9} + \frac{5}{9} = 1 \frac{1}{3}$ | 19) $\frac{7}{8} + \frac{5}{8} + \frac{3}{8} = 1 \frac{7}{8}$ |
| 10) $\frac{7}{12} + \frac{1}{12} = \frac{2}{3}$ | 20) $\frac{7}{10} + \frac{9}{10} + \frac{1}{10} = 1 \frac{7}{10}$ |

Simplify your answers as far as possible.

1) $\frac{1}{4} + \frac{1}{2} = \frac{3}{4}$

2) $\frac{1}{8} + \frac{1}{4} =$

3) $\frac{3}{8} + \frac{1}{2} =$

4) $\frac{1}{6} + \frac{2}{3} =$

5) $\frac{1}{10} + \frac{2}{5} =$

6) $\frac{1}{12} + \frac{1}{2} =$

7) $\frac{2}{3} + \frac{1}{12} =$

8) $\frac{5}{8} + \frac{1}{4} =$

9) $\frac{1}{4} + \frac{5}{12} =$

10) $\frac{1}{10} + \frac{1}{5} =$

11) $\frac{1}{6} + \frac{5}{12} =$

12) $\frac{1}{6} + \frac{1}{4} =$

13) $\frac{1}{12} + \frac{3}{4} =$

14) $\frac{1}{6} + \frac{3}{4} =$

15) $\frac{7}{12} + \frac{1}{3} =$

16) $\frac{1}{6} + \frac{1}{8} =$

17) $\frac{1}{5} + \frac{1}{6} =$

18) $\frac{2}{3} + \frac{1}{10} =$

19) $\frac{1}{6} + \frac{1}{7} =$

20) $\frac{1}{4} + \frac{1}{7} =$

Simplify your answers as far as possible.

$$1) \quad \frac{1}{4} + \frac{1}{2} = \frac{3}{4}$$

$$2) \quad \frac{1}{8} + \frac{1}{4} = \frac{3}{8}$$

$$3) \quad \frac{3}{8} + \frac{1}{2} = \frac{7}{8}$$

$$4) \quad \frac{1}{6} + \frac{2}{3} = \frac{5}{6}$$

$$5) \quad \frac{1}{10} + \frac{2}{5} = \frac{1}{2}$$

$$6) \quad \frac{1}{12} + \frac{1}{2} = \frac{7}{12}$$

$$7) \quad \frac{2}{3} + \frac{1}{12} = \frac{3}{4}$$

$$8) \quad \frac{5}{8} + \frac{1}{4} = \frac{7}{8}$$

$$9) \quad \frac{1}{4} + \frac{5}{12} = \frac{2}{3}$$

$$10) \quad \frac{1}{10} + \frac{1}{5} = \frac{3}{10}$$

$$11) \quad \frac{1}{6} + \frac{5}{12} = \frac{7}{12}$$

$$12) \quad \frac{1}{6} + \frac{1}{4} = \frac{5}{12}$$

$$13) \quad \frac{1}{12} + \frac{3}{4} = \frac{5}{6}$$

$$14) \quad \frac{1}{6} + \frac{3}{4} = \frac{11}{12}$$

$$15) \quad \frac{7}{12} + \frac{1}{3} = \frac{11}{12}$$

$$16) \quad \frac{1}{6} + \frac{1}{8} = \frac{7}{24}$$

$$17) \quad \frac{1}{5} + \frac{1}{6} = \frac{11}{30}$$

$$18) \quad \frac{2}{3} + \frac{1}{10} = \frac{23}{30}$$

$$19) \quad \frac{1}{6} + \frac{1}{7} = \frac{13}{42}$$

$$20) \quad \frac{1}{4} + \frac{1}{7} = \frac{11}{28}$$

Simplify your answers as far as possible.

1) $\frac{2}{3} + \frac{1}{7} = \frac{17}{21}$

11) $\frac{1}{7} + \frac{1}{10} =$

2) $\frac{1}{3} + \frac{1}{12} =$

12) $\frac{1}{6} + \frac{1}{12} =$

3) $\frac{1}{9} + \frac{1}{10} =$

13) $\frac{1}{7} + \frac{1}{9} =$

4) $\frac{1}{4} + \frac{1}{9} =$

14) $\frac{5}{6} + \frac{1}{8} =$

5) $\frac{1}{3} + \frac{1}{10} =$

15) $\frac{1}{6} + \frac{1}{10} =$

6) $\frac{1}{3} + \frac{1}{9} =$

16) $\frac{1}{7} + \frac{1}{8} =$

7) $\frac{1}{4} + \frac{1}{5} =$

17) $\frac{1}{8} + \frac{1}{10} =$

8) $\frac{5}{6} + \frac{1}{10} =$

18) $\frac{1}{6} + \frac{1}{9} =$

9) $\frac{1}{8} + \frac{1}{9} =$

19) $\frac{5}{7} + \frac{2}{9} =$

10) $\frac{2}{7} + \frac{3}{10} =$

20) $\frac{1}{7} + \frac{7}{10} =$

Simplify your answers as far as possible.

$$1) \quad \frac{2}{3} + \frac{1}{7} = \frac{17}{21}$$

$$2) \quad \frac{1}{3} + \frac{1}{12} = \frac{5}{12}$$

$$3) \quad \frac{1}{9} + \frac{1}{10} = \frac{19}{90}$$

$$4) \quad \frac{1}{4} + \frac{1}{9} = \frac{13}{36}$$

$$5) \quad \frac{1}{3} + \frac{1}{10} = \frac{13}{30}$$

$$6) \quad \frac{1}{3} + \frac{1}{9} = \frac{4}{9}$$

$$7) \quad \frac{1}{4} + \frac{1}{5} = \frac{9}{20}$$

$$8) \quad \frac{5}{6} + \frac{1}{10} = \frac{14}{15}$$

$$9) \quad \frac{1}{8} + \frac{1}{9} = \frac{17}{72}$$

$$10) \quad \frac{2}{7} + \frac{3}{10} = \frac{41}{70}$$

$$11) \quad \frac{1}{7} + \frac{1}{10} = \frac{17}{70}$$

$$12) \quad \frac{1}{6} + \frac{1}{12} = \frac{1}{4}$$

$$13) \quad \frac{1}{7} + \frac{1}{9} = \frac{16}{63}$$

$$14) \quad \frac{5}{6} + \frac{1}{8} = \frac{23}{24}$$

$$15) \quad \frac{1}{6} + \frac{1}{10} = \frac{4}{15}$$

$$16) \quad \frac{1}{7} + \frac{1}{8} = \frac{15}{56}$$

$$17) \quad \frac{1}{8} + \frac{1}{10} = \frac{9}{40}$$

$$18) \quad \frac{1}{6} + \frac{1}{9} = \frac{5}{18}$$

$$19) \quad \frac{5}{7} + \frac{2}{9} = \frac{59}{63}$$

$$20) \quad \frac{1}{7} + \frac{7}{10} = \frac{59}{70}$$

Give your answers as mixed fractions,
simplifying where possible.

$$1) \quad 1 \frac{5}{8} + \frac{3}{4} = 2 \frac{3}{8}$$

$$11) \quad \frac{5}{12} + 3 \frac{5}{6} =$$

$$2) \quad 1 \frac{7}{8} + 1 \frac{1}{2} =$$

$$12) \quad 4 \frac{3}{4} + \frac{5}{6} =$$

$$3) \quad 1 \frac{3}{4} + \frac{1}{2} =$$

$$13) \quad \frac{1}{4} + 5 \frac{5}{6} =$$

$$4) \quad \frac{2}{3} + 1 \frac{5}{6} =$$

$$14) \quad 2 \frac{7}{12} + 1 \frac{3}{4} =$$

$$5) \quad 2 \frac{11}{12} + \frac{2}{3} =$$

$$15) \quad \frac{7}{12} + 6 \frac{2}{3} =$$

$$6) \quad \frac{1}{4} + 1 \frac{7}{8} =$$

$$16) \quad \frac{2}{3} + 4 \frac{7}{10} =$$

$$7) \quad \frac{4}{5} + 2 \frac{3}{10} =$$

$$17) \quad 4 \frac{1}{6} + \frac{6}{7} =$$

$$8) \quad 3 \frac{1}{2} + \frac{7}{12} =$$

$$18) \quad 3 \frac{3}{4} + 1 \frac{5}{7} =$$

$$9) \quad \frac{5}{12} + 2 \frac{3}{4} =$$

$$19) \quad 4 \frac{1}{6} + 1 \frac{7}{8} =$$

$$10) \quad 3 \frac{1}{5} + \frac{9}{10} =$$

$$20) \quad 2 \frac{4}{5} + 3 \frac{5}{6} =$$



Give your answers as mixed fractions,
simplifying where possible.

$$1) \quad 1 \frac{5}{8} + \frac{3}{4} = 2 \frac{3}{8}$$

$$2) \quad 1 \frac{7}{8} + 1 \frac{1}{2} = 3 \frac{3}{8}$$

$$3) \quad 1 \frac{3}{4} + \frac{1}{2} = 2 \frac{1}{4}$$

$$4) \quad \frac{2}{3} + 1 \frac{5}{6} = 2 \frac{1}{2}$$

$$5) \quad 2 \frac{11}{12} + \frac{2}{3} = 3 \frac{7}{12}$$

$$6) \quad \frac{1}{4} + 1 \frac{7}{8} = 2 \frac{1}{8}$$

$$7) \quad \frac{4}{5} + 2 \frac{3}{10} = 3 \frac{1}{10}$$

$$8) \quad 3 \frac{1}{2} + \frac{7}{12} = 4 \frac{1}{12}$$

$$9) \quad \frac{5}{12} + 2 \frac{3}{4} = 3 \frac{1}{6}$$

$$10) \quad 3 \frac{1}{5} + \frac{9}{10} = 4 \frac{1}{10}$$

$$11) \quad \frac{5}{12} + 3 \frac{5}{6} = 4 \frac{1}{4}$$

$$12) \quad 4 \frac{3}{4} + \frac{5}{6} = 5 \frac{7}{12}$$

$$13) \quad \frac{1}{4} + 5 \frac{5}{6} = 6 \frac{1}{12}$$

$$14) \quad 2 \frac{7}{12} + 1 \frac{3}{4} = 4 \frac{1}{3}$$

$$15) \quad \frac{7}{12} + 6 \frac{2}{3} = 7 \frac{1}{4}$$

$$16) \quad \frac{2}{3} + 4 \frac{7}{10} = 5 \frac{11}{30}$$

$$17) \quad 4 \frac{1}{6} + \frac{6}{7} = 5 \frac{1}{42}$$

$$18) \quad 3 \frac{3}{4} + 1 \frac{5}{7} = 5 \frac{13}{28}$$

$$19) \quad 4 \frac{1}{6} + 1 \frac{7}{8} = 6 \frac{1}{24}$$

$$20) \quad 2 \frac{4}{5} + 3 \frac{5}{6} = 6 \frac{19}{30}$$



Simplify your answers as far as possible.

1) $\frac{3}{8} - \frac{1}{4} = \frac{1}{8}$

2) $\frac{3}{4} - \frac{1}{2} =$

3) $\frac{5}{6} - \frac{2}{3} =$

4) $\frac{1}{2} - \frac{1}{10} =$

5) $\frac{7}{8} - \frac{1}{2} =$

6) $\frac{3}{4} - \frac{2}{3} =$

7) $\frac{7}{8} - \frac{1}{4} =$

8) $\frac{7}{12} - \frac{1}{2} =$

9) $\frac{2}{3} - \frac{5}{12} =$

10) $\frac{3}{10} - \frac{1}{5} =$

11) $\frac{5}{12} - \frac{1}{3} =$

12) $\frac{7}{12} - \frac{1}{6} =$

13) $\frac{1}{4} - \frac{1}{6} =$

14) $\frac{9}{40} - \frac{1}{8} =$

15) $\frac{5}{18} - \frac{1}{6} =$

16) $\frac{13}{42} - \frac{1}{7} =$

17) $\frac{11}{30} - \frac{1}{5} =$

18) $\frac{23}{30} - \frac{1}{10} =$

19) $\frac{11}{28} - \frac{1}{7} =$

20) $\frac{4}{9} - \frac{1}{3} =$



Simplify your answers as far as possible.

$$1) \quad \frac{3}{8} - \frac{1}{4} = \frac{1}{8}$$

$$2) \quad \frac{3}{4} - \frac{1}{2} = \frac{1}{4}$$

$$3) \quad \frac{5}{6} - \frac{2}{3} = \frac{1}{6}$$

$$4) \quad \frac{1}{2} - \frac{1}{10} = \frac{2}{5}$$

$$5) \quad \frac{7}{8} - \frac{1}{2} = \frac{3}{8}$$

$$6) \quad \frac{3}{4} - \frac{2}{3} = \frac{1}{12}$$

$$7) \quad \frac{7}{8} - \frac{1}{4} = \frac{5}{8}$$

$$8) \quad \frac{7}{12} - \frac{1}{2} = \frac{1}{12}$$

$$9) \quad \frac{2}{3} - \frac{5}{12} = \frac{1}{4}$$

$$10) \quad \frac{3}{10} - \frac{1}{5} = \frac{1}{10}$$

$$11) \quad \frac{5}{12} - \frac{1}{3} = \frac{1}{12}$$

$$12) \quad \frac{7}{12} - \frac{1}{6} = \frac{5}{12}$$

$$13) \quad \frac{1}{4} - \frac{1}{6} = \frac{1}{12}$$

$$14) \quad \frac{9}{40} - \frac{1}{8} = \frac{1}{10}$$

$$15) \quad \frac{5}{18} - \frac{1}{6} = \frac{1}{9}$$

$$16) \quad \frac{13}{42} - \frac{1}{7} = \frac{1}{6}$$

$$17) \quad \frac{11}{30} - \frac{1}{5} = \frac{1}{6}$$

$$18) \quad \frac{23}{30} - \frac{1}{10} = \frac{2}{3}$$

$$19) \quad \frac{11}{28} - \frac{1}{7} = \frac{1}{4}$$

$$20) \quad \frac{4}{9} - \frac{1}{3} = \frac{1}{9}$$



Simplify your answers as far as possible.

$$1) \frac{19}{90} - \frac{1}{10} = \frac{1}{9}$$

$$2) \frac{13}{36} - \frac{1}{4} =$$

$$3) \frac{5}{12} - \frac{1}{6} =$$

$$4) \frac{17}{21} - \frac{2}{3} =$$

$$5) \frac{9}{20} - \frac{1}{5} =$$

$$6) \frac{14}{15} - \frac{1}{10} =$$

$$7) \frac{17}{72} - \frac{1}{9} =$$

$$8) \frac{13}{30} - \frac{1}{3} =$$

$$9) \frac{11}{12} - \frac{1}{6} =$$

$$10) \frac{4}{15} - \frac{1}{10} =$$

$$11) \frac{17}{70} - \frac{1}{7} =$$

$$12) \frac{23}{24} - \frac{5}{6} =$$

$$13) \frac{16}{63} - \frac{1}{7} =$$

$$14) \frac{5}{6} - \frac{3}{4} =$$

$$15) \frac{15}{56} - \frac{1}{8} =$$

$$16) \frac{59}{63} - \frac{5}{7} =$$

$$17) \frac{41}{70} - \frac{2}{7} =$$

$$18) \frac{59}{70} - \frac{7}{10} =$$

$$19) \frac{11}{12} - \frac{1}{3} =$$

$$20) \frac{7}{24} - \frac{1}{6} =$$



Simplify your answers as far as possible.

$$1) \quad \frac{19}{90} - \frac{1}{10} = \frac{1}{9}$$

$$2) \quad \frac{13}{36} - \frac{1}{4} = \frac{1}{9}$$

$$3) \quad \frac{5}{12} - \frac{1}{6} = \frac{1}{4}$$

$$4) \quad \frac{17}{21} - \frac{2}{3} = \frac{1}{7}$$

$$5) \quad \frac{9}{20} - \frac{1}{5} = \frac{1}{4}$$

$$6) \quad \frac{14}{15} - \frac{1}{10} = \frac{5}{6}$$

$$7) \quad \frac{17}{72} - \frac{1}{9} = \frac{1}{8}$$

$$8) \quad \frac{13}{30} - \frac{1}{3} = \frac{1}{10}$$

$$9) \quad \frac{11}{12} - \frac{1}{6} = \frac{3}{4}$$

$$10) \quad \frac{4}{15} - \frac{1}{10} = \frac{1}{6}$$

$$11) \quad \frac{17}{70} - \frac{1}{7} = \frac{1}{10}$$

$$12) \quad \frac{23}{24} - \frac{5}{6} = \frac{1}{8}$$

$$13) \quad \frac{16}{63} - \frac{1}{7} = \frac{1}{9}$$

$$14) \quad \frac{5}{6} - \frac{3}{4} = \frac{1}{12}$$

$$15) \quad \frac{15}{56} - \frac{1}{8} = \frac{1}{7}$$

$$16) \quad \frac{59}{63} - \frac{5}{7} = \frac{2}{9}$$

$$17) \quad \frac{41}{70} - \frac{2}{7} = \frac{3}{10}$$

$$18) \quad \frac{59}{70} - \frac{7}{10} = \frac{1}{7}$$

$$19) \quad \frac{11}{12} - \frac{1}{3} = \frac{7}{12}$$

$$20) \quad \frac{7}{24} - \frac{1}{6} = \frac{1}{8}$$



Simplify your answers as far as possible

1) $\frac{1}{2} \times \frac{5}{6} = \frac{5}{12}$

2) $\frac{1}{3} \times \frac{1}{5} =$

3) $\frac{1}{2} \times \frac{3}{7} =$

4) $\frac{3}{4} \times \frac{2}{3} =$

5) $\frac{4}{5} \times \frac{5}{6} =$

6) $\frac{1}{5} \times \frac{5}{8} =$

7) $\frac{3}{5} \times \frac{5}{12} =$

8) $\frac{3}{8} \times \frac{8}{9} =$

9) $\frac{2}{5} \times \frac{5}{6} =$

10) $\frac{9}{10} \times \frac{4}{9} =$

11) $\frac{4}{7} \times \frac{3}{4} =$

12) $\frac{3}{4} \times \frac{5}{6} =$

13) $\frac{4}{5} \times \frac{7}{8} =$

14) $\frac{6}{7} \times \frac{5}{6} =$

15) $\frac{2}{7} \times \frac{7}{20} =$

16) $\frac{5}{8} \times \frac{7}{10} =$

17) $\frac{2}{5} \times \frac{3}{10} =$

18) $\frac{9}{10} \times \frac{4}{5} =$

19) $\frac{5}{6} \times \frac{3}{10} =$

20) $\frac{3}{4} \times \frac{11}{12} =$



Simplify your answers as far as possible

$$1) \quad \frac{1}{2} \times \frac{5}{6} = \frac{5}{12}$$

$$2) \quad \frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$$

$$3) \quad \frac{1}{2} \times \frac{3}{7} = \frac{3}{14}$$

$$4) \quad \frac{3}{4} \times \frac{2}{3} = \frac{1}{2}$$

$$5) \quad \frac{4}{5} \times \frac{5}{6} = \frac{2}{3}$$

$$6) \quad \frac{1}{5} \times \frac{5}{8} = \frac{1}{8}$$

$$7) \quad \frac{3}{5} \times \frac{5}{12} = \frac{1}{4}$$

$$8) \quad \frac{3}{8} \times \frac{8}{9} = \frac{1}{3}$$

$$9) \quad \frac{2}{5} \times \frac{5}{6} = \frac{1}{3}$$

$$10) \quad \frac{9}{10} \times \frac{4}{9} = \frac{2}{5}$$

$$11) \quad \frac{4}{7} \times \frac{3}{4} = \frac{3}{7}$$

$$12) \quad \frac{3}{4} \times \frac{5}{6} = \frac{5}{8}$$

$$13) \quad \frac{4}{5} \times \frac{7}{8} = \frac{7}{10}$$

$$14) \quad \frac{6}{7} \times \frac{5}{6} = \frac{5}{7}$$

$$15) \quad \frac{2}{7} \times \frac{7}{20} = \frac{1}{10}$$

$$16) \quad \frac{5}{8} \times \frac{7}{10} = \frac{7}{16}$$

$$17) \quad \frac{2}{5} \times \frac{3}{10} = \frac{3}{25}$$

$$18) \quad \frac{9}{10} \times \frac{4}{5} = \frac{18}{25}$$

$$19) \quad \frac{5}{6} \times \frac{3}{10} = \frac{1}{4}$$

$$20) \quad \frac{3}{4} \times \frac{11}{12} = \frac{11}{16}$$

Dividing Fractions

Simplify your answers as far as possible.

$$1) \frac{1}{4} \div \frac{1}{10} = 2 \frac{1}{2}$$

$$11) \frac{2}{7} \div \frac{7}{9} =$$

$$2) \frac{1}{4} \div \frac{1}{2} =$$

$$12) \frac{1}{10} \div \frac{1}{6} =$$

$$3) \frac{1}{2} \div \frac{3}{4} =$$

$$13) \frac{4}{9} \div \frac{4}{7} =$$

$$4) \frac{3}{4} \div \frac{1}{7} =$$

$$14) \frac{3}{8} \div \frac{1}{8} =$$

$$5) \frac{1}{2} \div \frac{2}{3} =$$

$$15) \frac{5}{9} \div \frac{1}{9} =$$

$$6) \frac{5}{8} \div \frac{1}{3} =$$

$$16) \frac{5}{6} \div \frac{3}{5} =$$

$$7) \frac{4}{5} \div \frac{2}{5} =$$

$$17) \frac{9}{10} \div \frac{5}{7} =$$

$$8) \frac{3}{7} \div \frac{1}{6} =$$

$$18) \frac{3}{5} \div \frac{3}{5} =$$

$$9) \frac{9}{10} \div \frac{1}{5} =$$

$$19) \frac{1}{4} \div \frac{6}{7} =$$

$$10) \frac{8}{9} \div \frac{1}{4} =$$

$$20) \frac{7}{10} \div \frac{7}{8} =$$

Dividing Fractions

Simplify your answers as far as possible.

$$1) \frac{1}{4} \div \frac{1}{10} = 2 \frac{1}{2}$$

$$11) \frac{2}{7} \div \frac{7}{9} = \frac{18}{49}$$

$$2) \frac{1}{4} \div \frac{1}{2} = \frac{1}{2}$$

$$12) \frac{1}{10} \div \frac{1}{6} = \frac{3}{5}$$

$$3) \frac{1}{2} \div \frac{3}{4} = \frac{2}{3}$$

$$13) \frac{4}{9} \div \frac{4}{7} = \frac{7}{9}$$

$$4) \frac{3}{4} \div \frac{1}{7} = 5 \frac{1}{4}$$

$$14) \frac{3}{8} \div \frac{1}{8} = 3$$

$$5) \frac{1}{2} \div \frac{2}{3} = \frac{3}{4}$$

$$15) \frac{5}{9} \div \frac{1}{9} = 5$$

$$6) \frac{5}{8} \div \frac{1}{3} = 1 \frac{7}{8}$$

$$16) \frac{5}{6} \div \frac{3}{5} = 1 \frac{7}{18}$$

$$7) \frac{4}{5} \div \frac{2}{5} = 2$$

$$17) \frac{9}{10} \div \frac{5}{7} = 1 \frac{13}{50}$$

$$8) \frac{3}{7} \div \frac{1}{6} = 2 \frac{4}{7}$$

$$18) \frac{3}{5} \div \frac{3}{5} = 1$$

$$9) \frac{9}{10} \div \frac{1}{5} = 4 \frac{1}{2}$$

$$19) \frac{1}{4} \div \frac{6}{7} = \frac{7}{24}$$

$$10) \frac{8}{9} \div \frac{1}{4} = 3 \frac{5}{9}$$

$$20) \frac{7}{10} \div \frac{7}{8} = \frac{4}{5}$$



A. Change the following fractions into decimals.

1) $\frac{1}{2} =$

7) $\frac{3}{5} =$

13) $\frac{77}{100} =$

2) $\frac{1}{4} =$

8) $\frac{1}{10} =$

14) $\frac{607}{100} =$

3) $\frac{2}{4} =$

9) $\frac{3}{10} =$

15) $\frac{1}{1000} =$

4) $\frac{3}{4} =$

10) $\frac{10}{10} =$

16) $\frac{21}{1000} =$

5) $\frac{5}{4} =$

11) $\frac{11}{10} =$

17) $\frac{501}{1000} =$

6) $\frac{1}{5} =$

12) $\frac{1}{100} =$

18) $\frac{4001}{1000} =$

B. Change the following decimals into fractions.

• Simplify your answers as far as possible.

• Fractions greater than 1 should be written as improper fractions.

1) $0.4 =$

7) $0.55 =$

13) $1.1 =$

2) $0.8 =$

8) $0.02 =$

14) $1.03 =$

3) $0.05 =$

9) $0.18 =$

15) $0.125 =$

4) $0.7 =$

10) $0.9 =$

16) $1.55 =$

5) $0.04 =$

11) $1.4 =$

17) $1.02 =$

6) $0.84 =$

12) $1.5 =$

18) $1.16 =$



A. Change the following fractions into decimals.

1) $\frac{1}{2} = 0.5$

7) $\frac{3}{5} = 0.6$

13) $\frac{77}{100} = 0.77$

2) $\frac{1}{4} = 0.25$

8) $\frac{1}{10} = 0.1$

14) $\frac{607}{100} = 6.07$

3) $\frac{2}{4} = 0.5$

9) $\frac{3}{10} = 0.3$

15) $\frac{1}{1000} = 0.001$

4) $\frac{3}{4} = 0.75$

10) $\frac{10}{10} = 1$

16) $\frac{21}{1000} = 0.021$

5) $\frac{5}{4} = 1.25$

11) $\frac{11}{10} = 1.1$

17) $\frac{501}{1000} = 0.501$

6) $\frac{1}{5} = 0.2$

12) $\frac{1}{100} = 0.01$

18) $\frac{4001}{1000} = 4.001$

B. Change the following decimals into fractions.

• Simplify your answers as far as possible.

• Fractions greater than 1 should be written as improper fractions.

1) $0.4 = \frac{2}{5}$

7) $0.55 = \frac{11}{20}$

13) $1.1 = \frac{11}{10}$

2) $0.8 = \frac{4}{5}$

8) $0.02 = \frac{1}{50}$

14) $1.03 = \frac{103}{100}$

3) $0.05 = \frac{1}{20}$

9) $0.18 = \frac{9}{50}$

15) $0.125 = \frac{1}{8}$

4) $0.7 = \frac{7}{10}$

10) $0.9 = \frac{9}{10}$

16) $1.55 = \frac{31}{20}$

5) $0.04 = \frac{1}{25}$

11) $1.4 = \frac{7}{5}$

17) $1.02 = \frac{51}{50}$

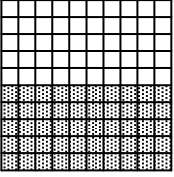
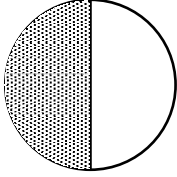
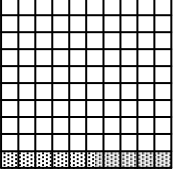
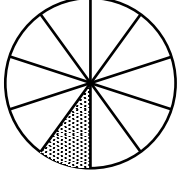
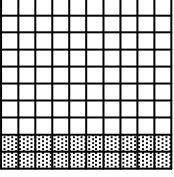
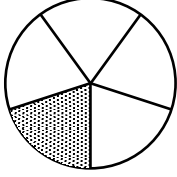
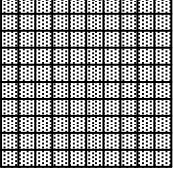
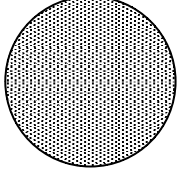
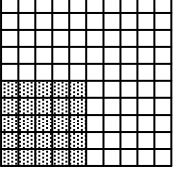
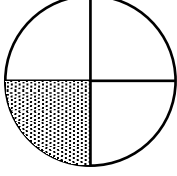
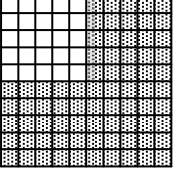
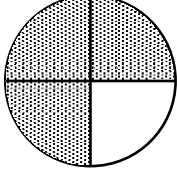
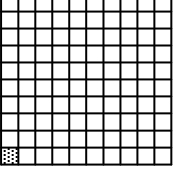
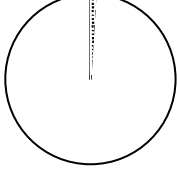
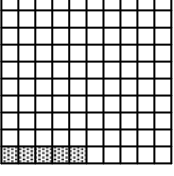
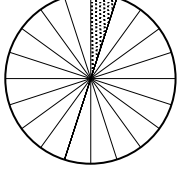
6) $0.84 = \frac{21}{25}$

12) $1.5 = \frac{3}{2}$

18) $1.16 = \frac{29}{25}$



Fill in the gaps...

		$\frac{1}{2}$	50%	0.5
				
				
				
				
				
				
				

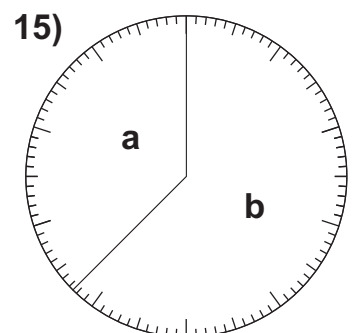
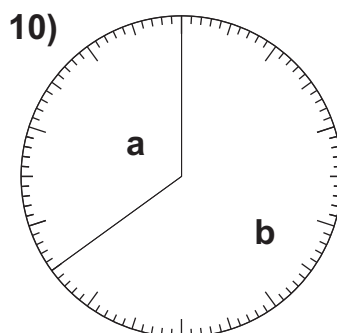
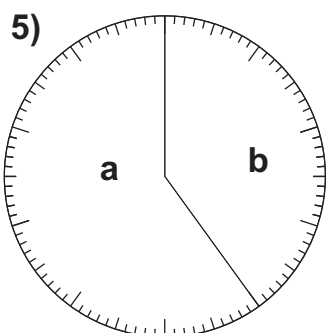
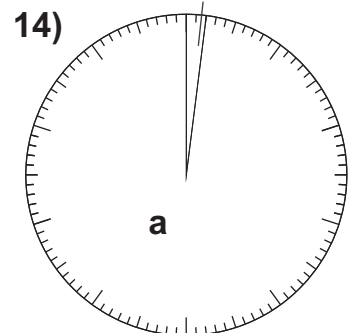
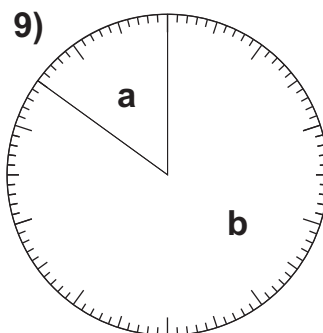
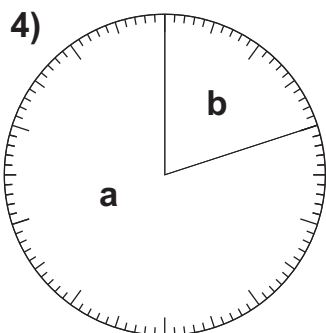
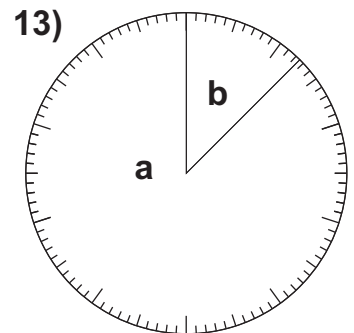
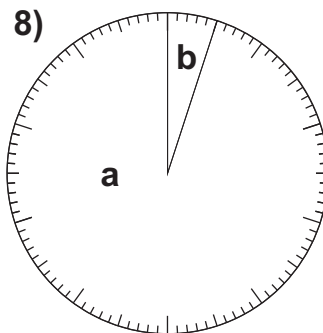
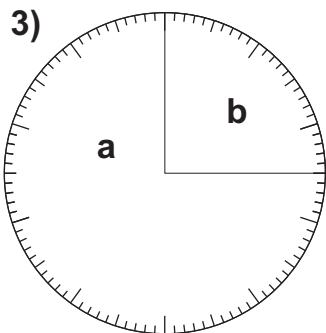
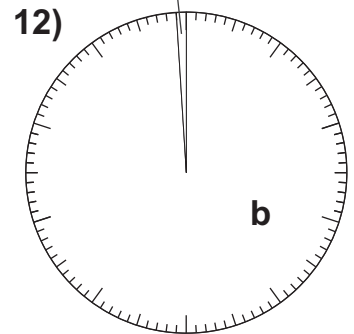
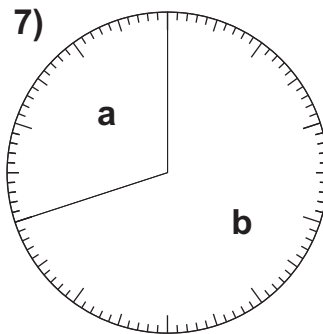
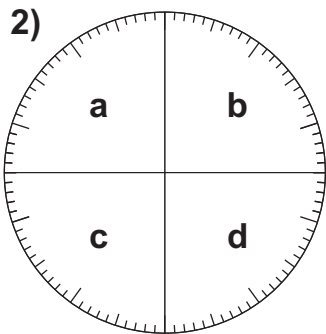
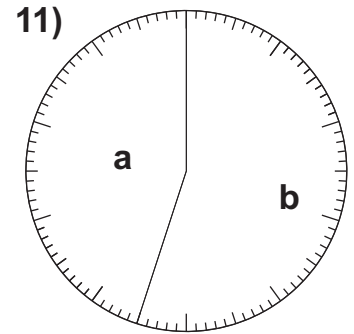
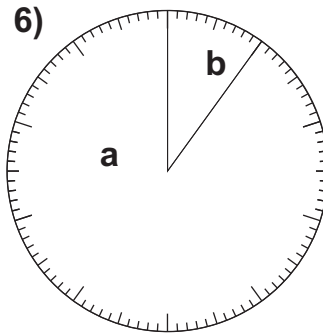
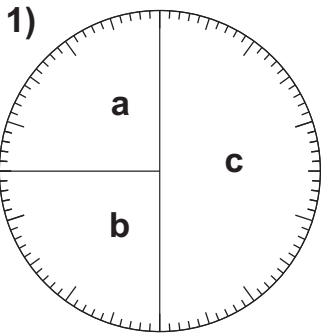


		$\frac{1}{2}$	50%	0.5
		$\frac{1}{10}$	10%	0.1
		$\frac{1}{5}$	20%	0.2
		1	100%	1.0
		$\frac{1}{4}$	25%	0.25
		$\frac{3}{4}$	75%	0.75
		$\frac{1}{100}$	1%	0.01
		$\frac{1}{20}$	5%	0.05

◊ Circle Percentages ◻

The following circles have been divided into 2 or more sectors.
Write down the percentage of a whole circle that each sector represents.

1a) 25%

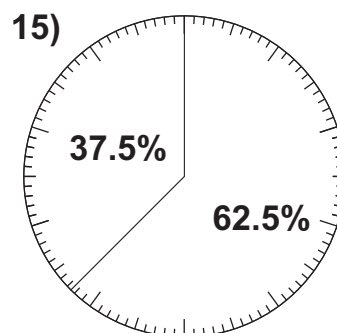
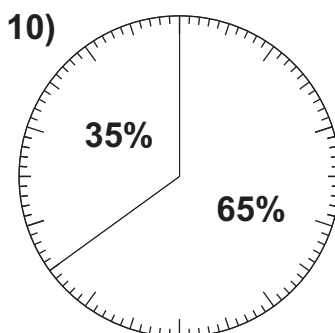
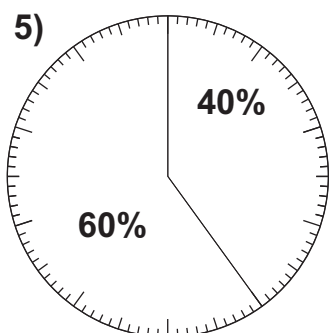
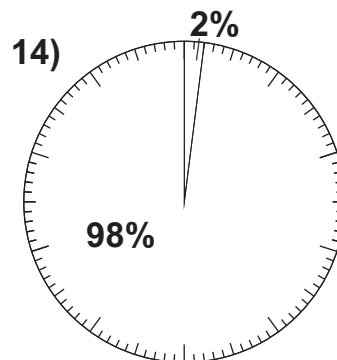
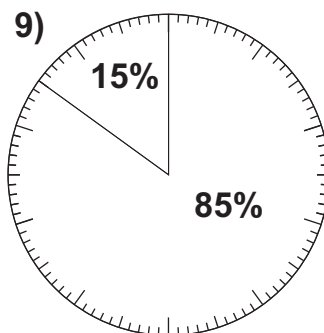
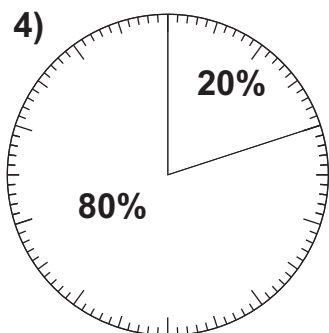
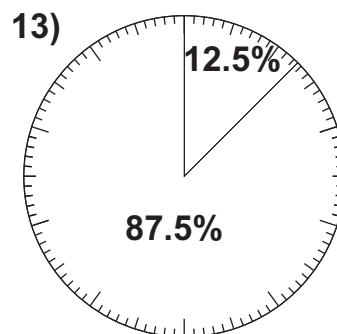
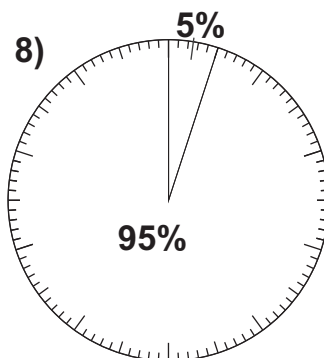
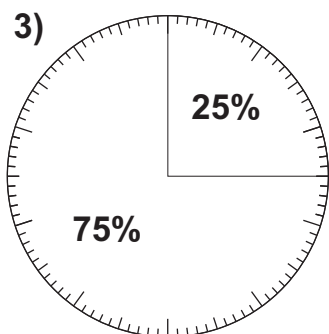
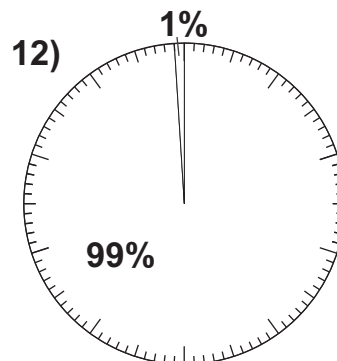
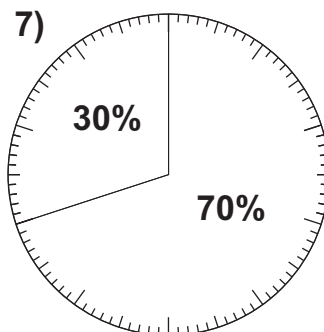
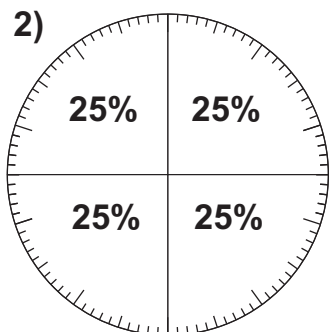
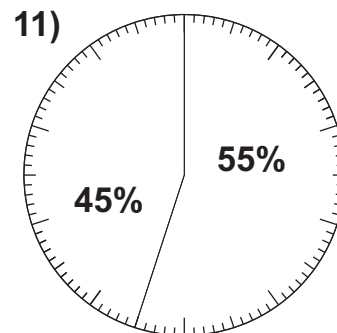
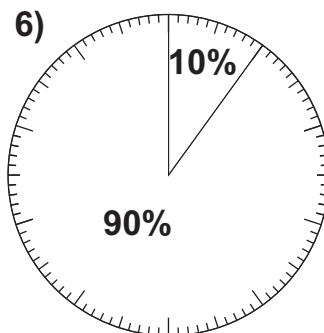
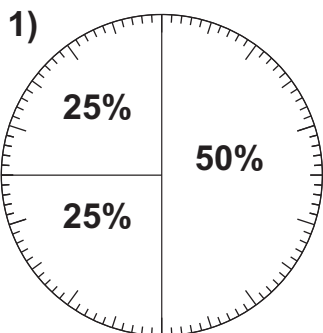


◊ Circle Percentages ◻

The following circles have been divided into 2 or more sectors.

Write down the percentage of a whole circle that each sector represents.

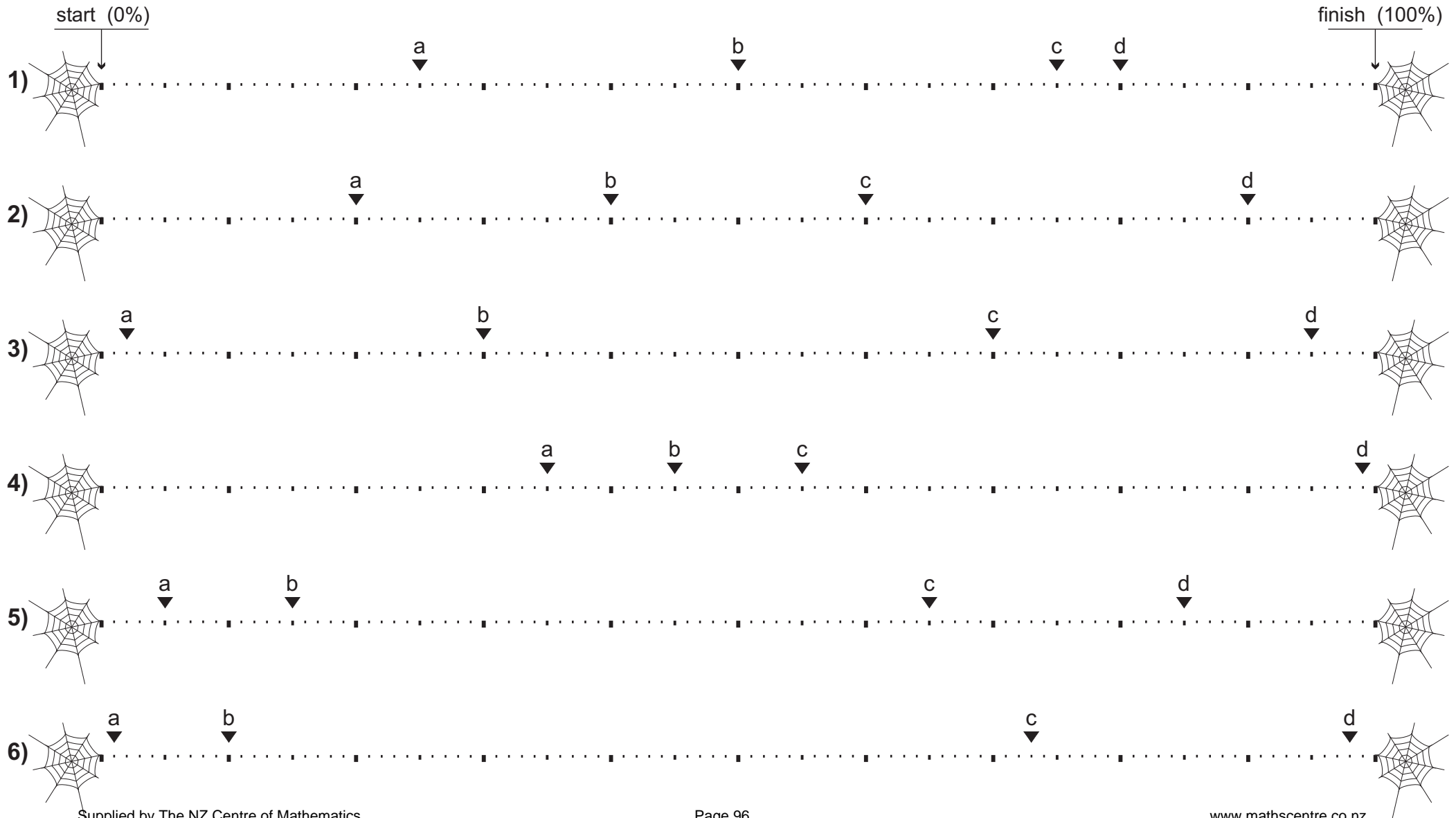
1a) 25%



Spider Percentages

A spider connected its two webs together using a line of silk. It then walked from one web to the other. What percentage of the whole line had the spider walked at each point shown.

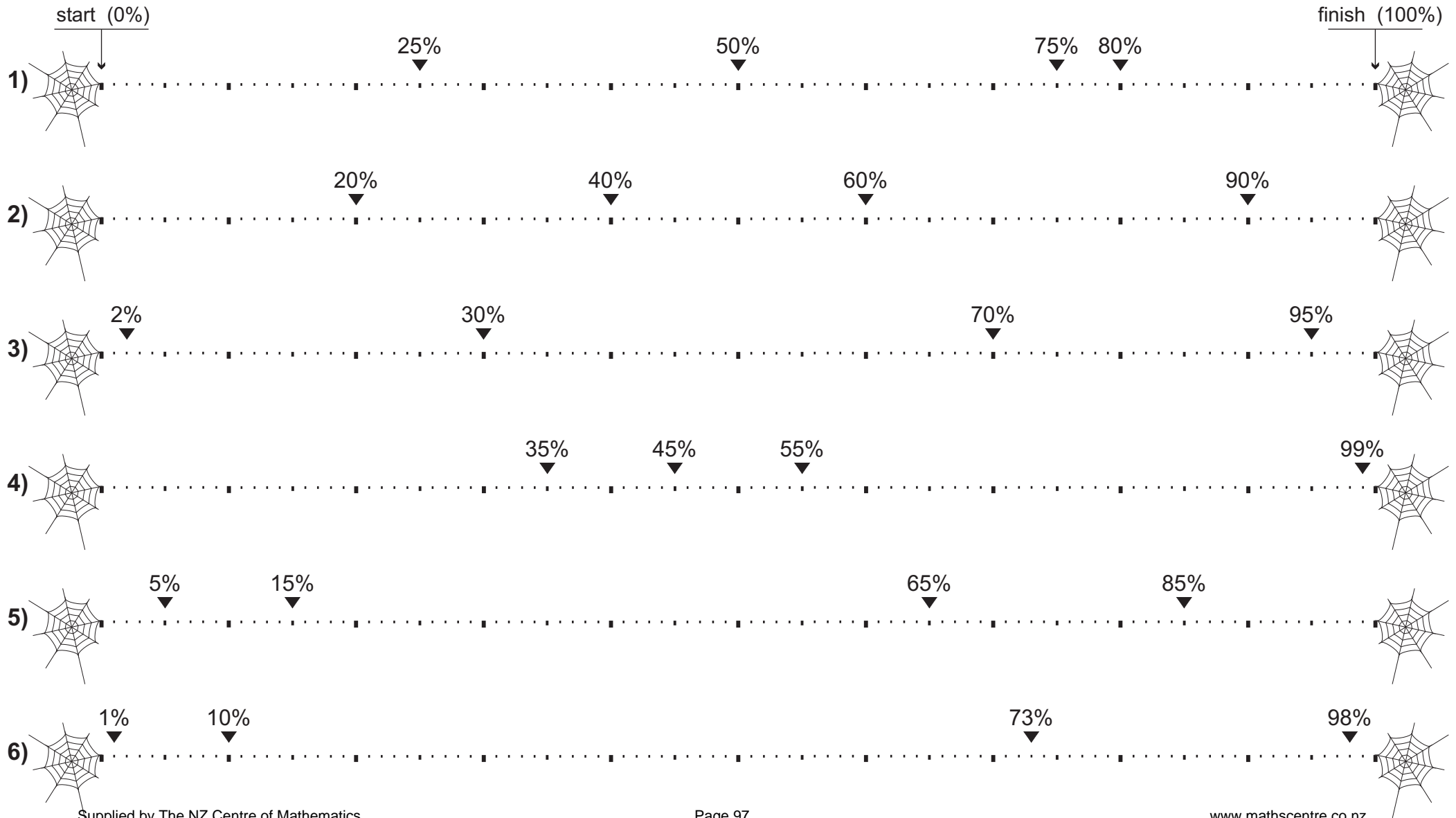
1a) 25%



Spider Percentages

A spider connected its two webs together using a line of silk. It then walked from one web to the other. What percentage of the whole line had the spider walked at each point shown.

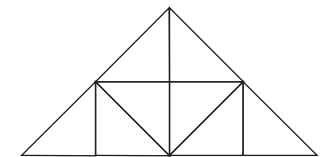
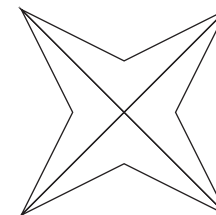
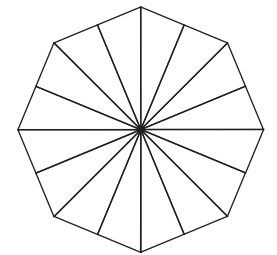
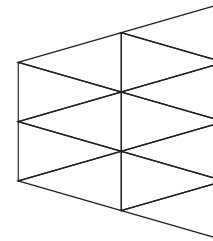
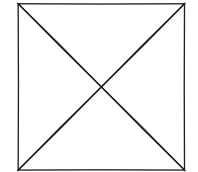
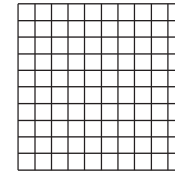
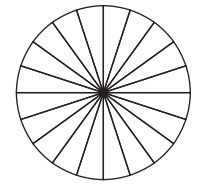
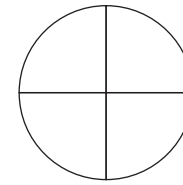
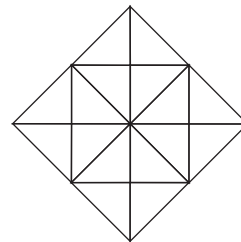
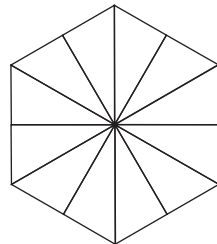
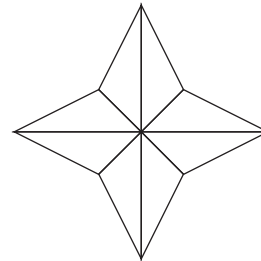
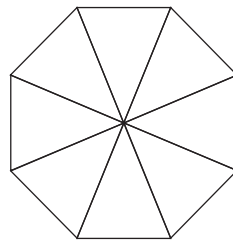
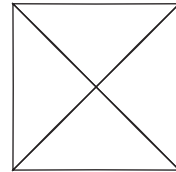
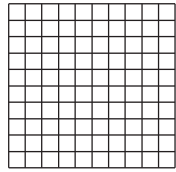
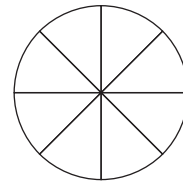
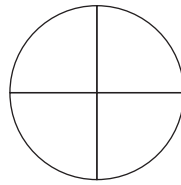
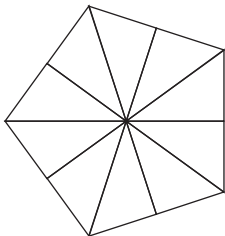
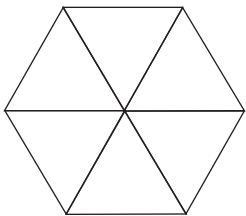
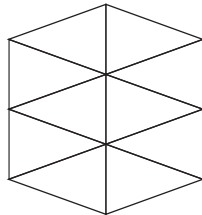
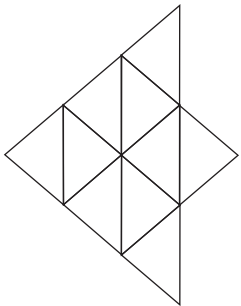
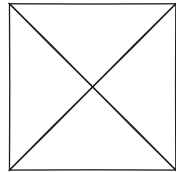
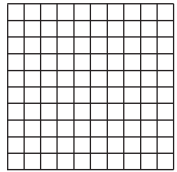
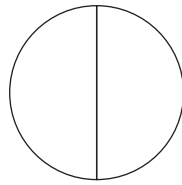
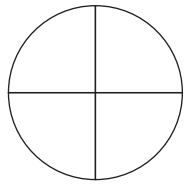
1a) 25%



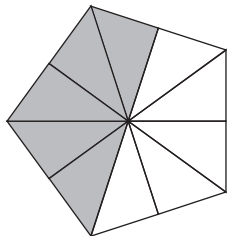
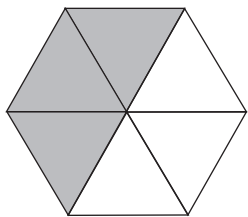
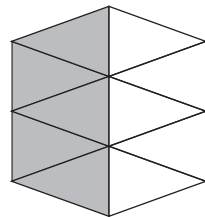
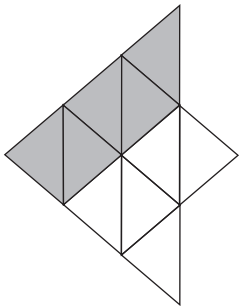
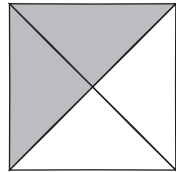
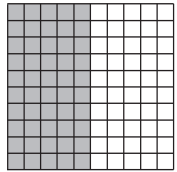
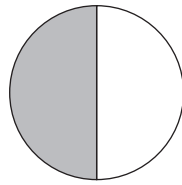
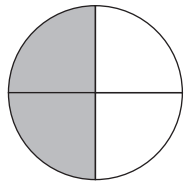
Shade in 50% of these shapes

Shade in 25% of these shapes

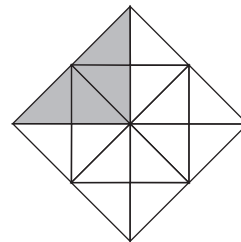
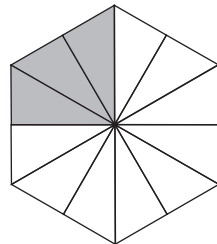
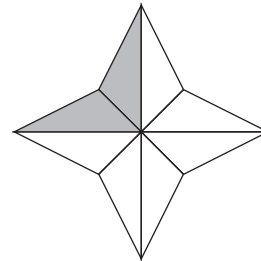
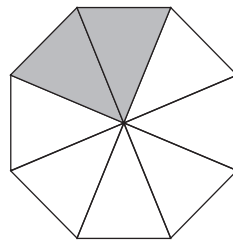
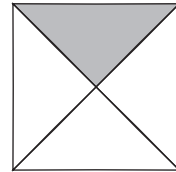
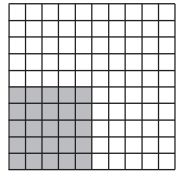
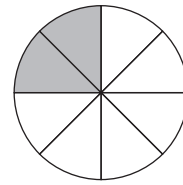
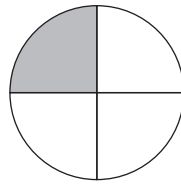
Shade in 75% of these shapes



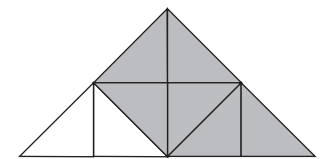
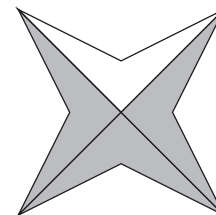
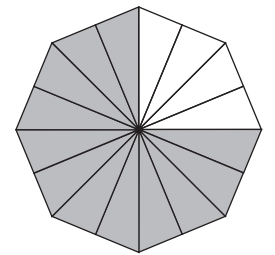
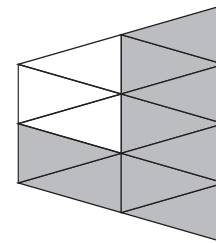
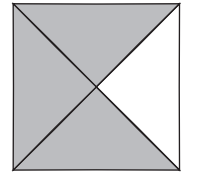
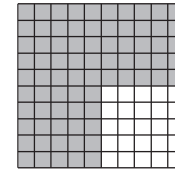
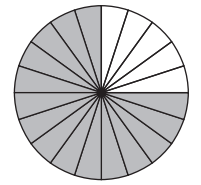
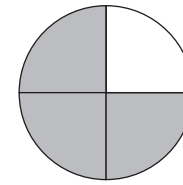
Shade in 50% of these shapes



Shade in 25% of these shapes

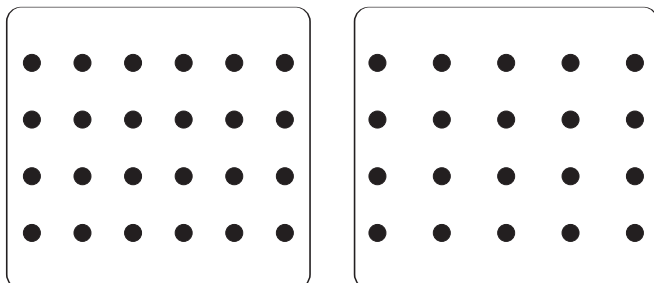
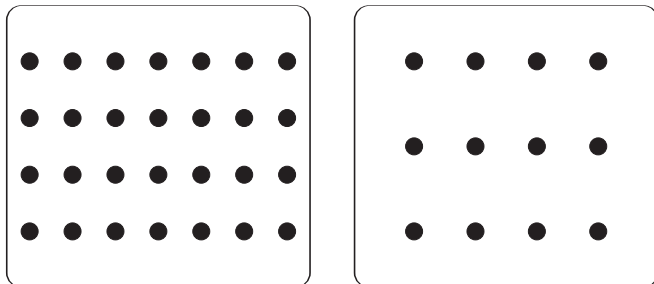
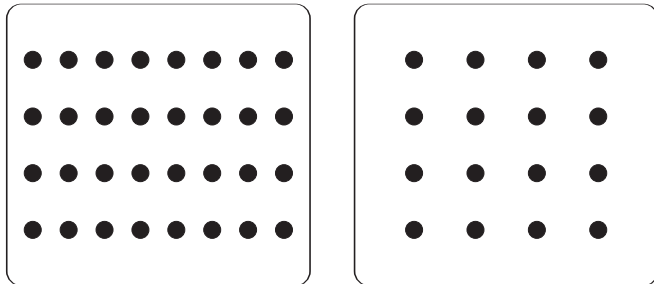
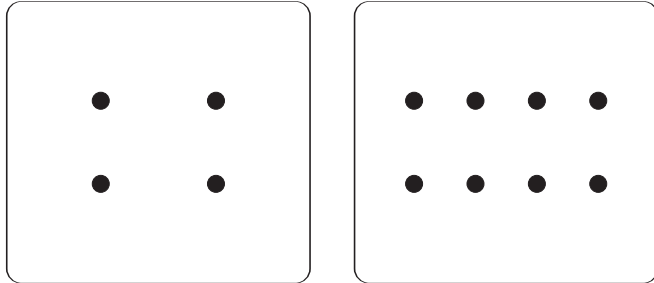


Shade in 75% of these shapes

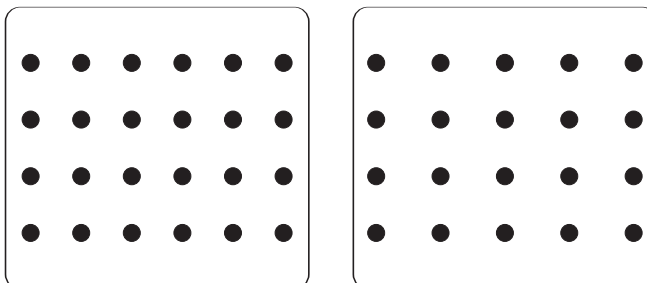
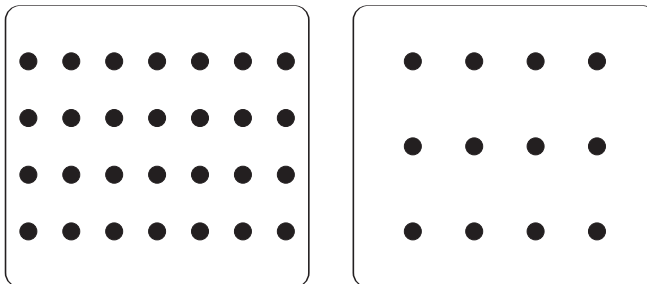
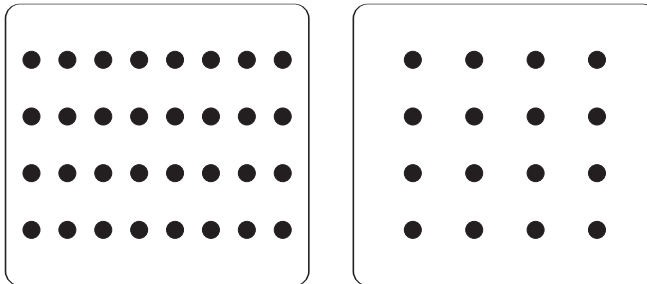
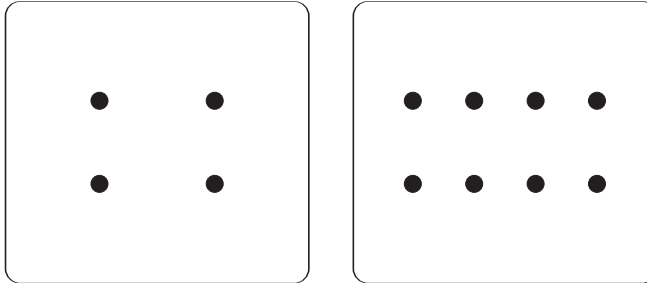


 Percentages- Circle the Dots 

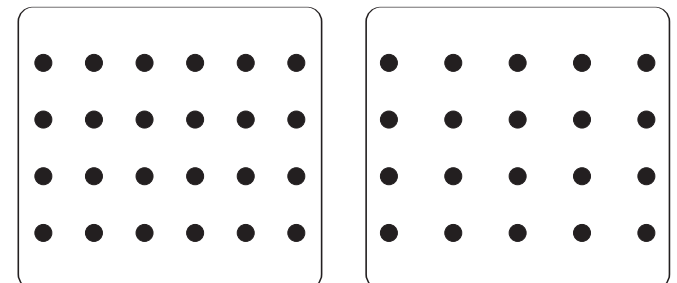
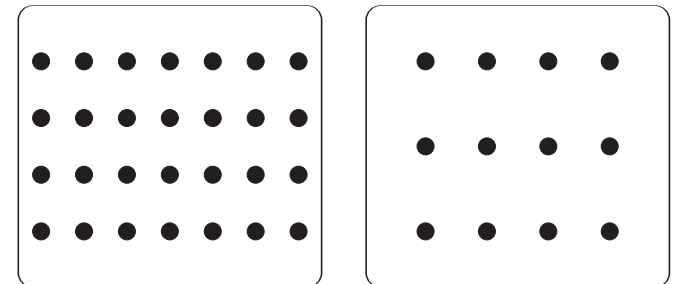
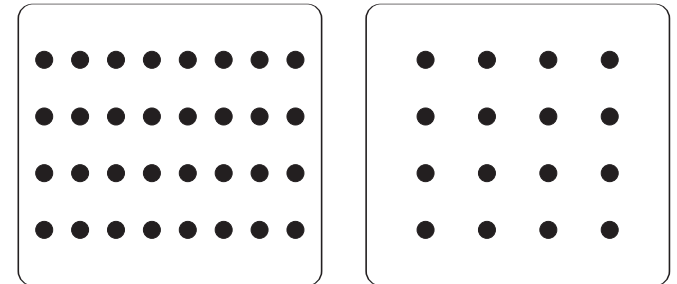
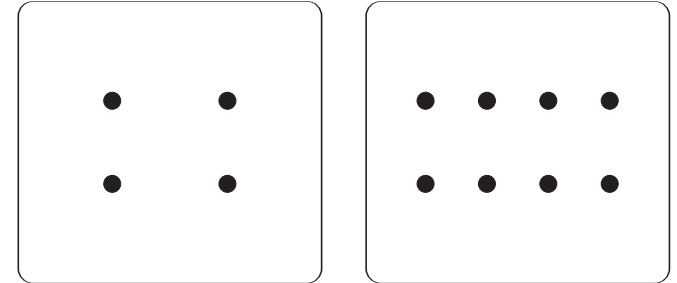
Circle 50% of the dots in each box below



Circle 25% of the dots in each box below

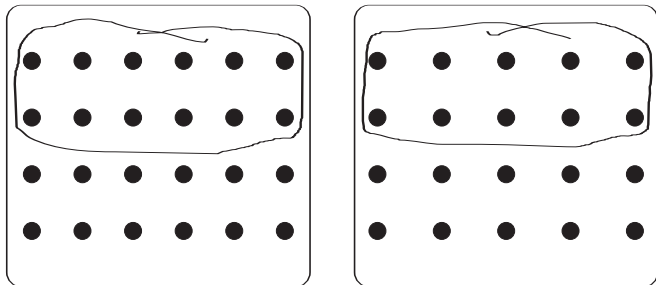
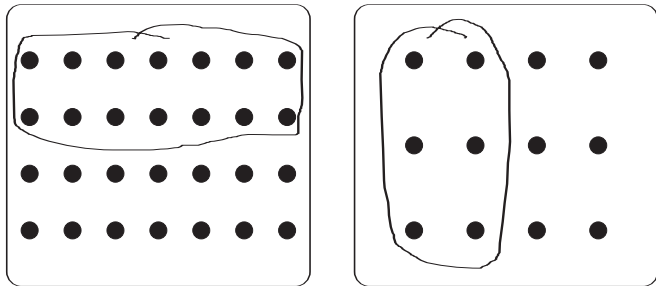
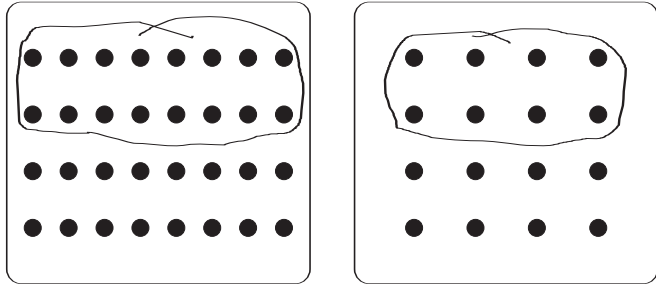
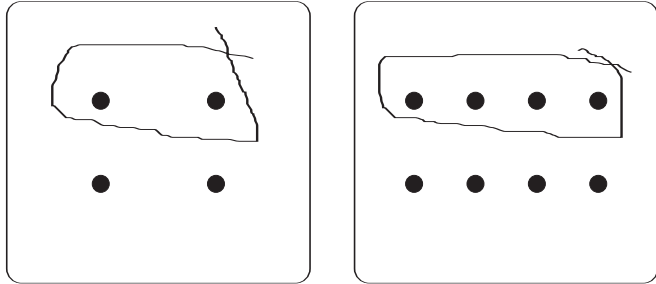


Circle 75% of the dots in each box below

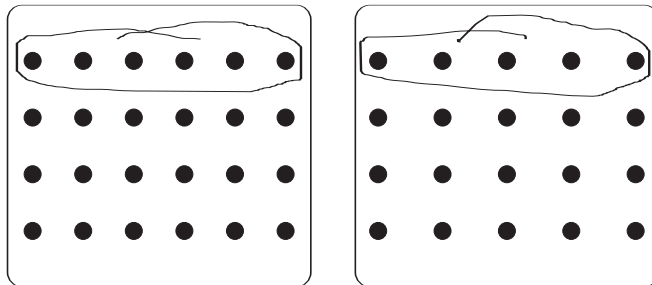
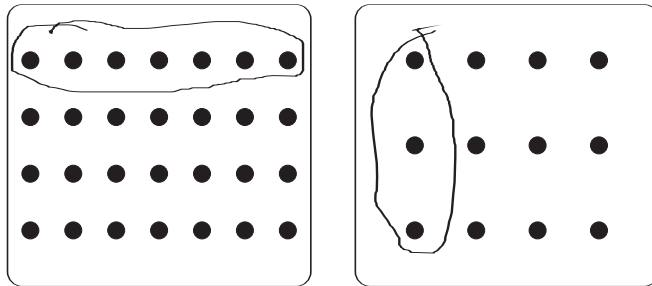
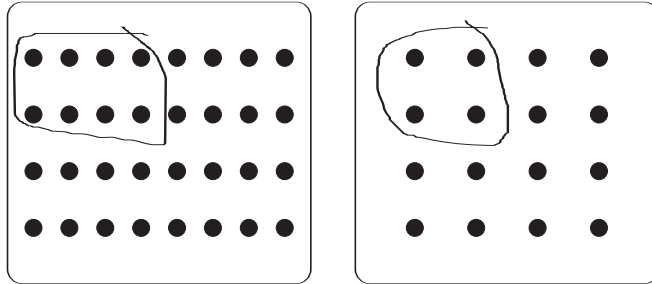
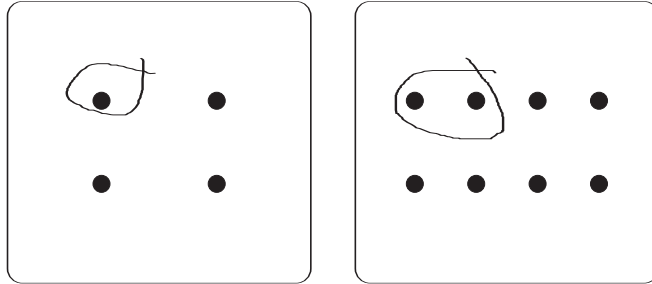


Percentages- Circle the Dots

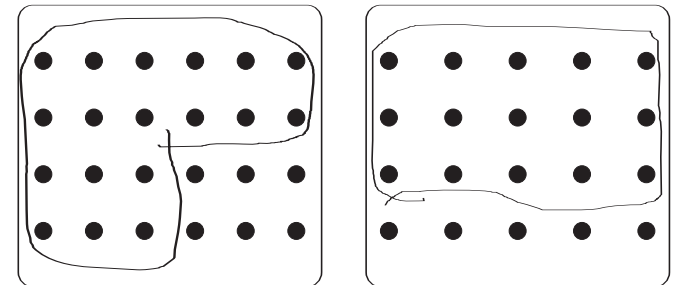
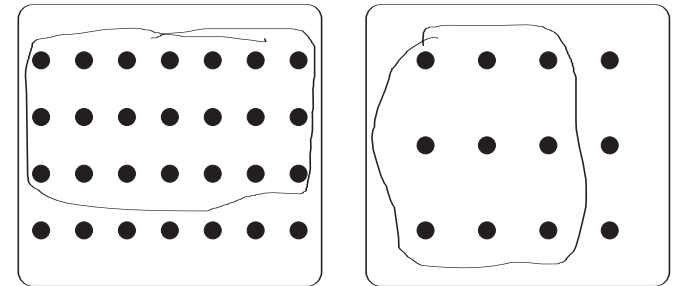
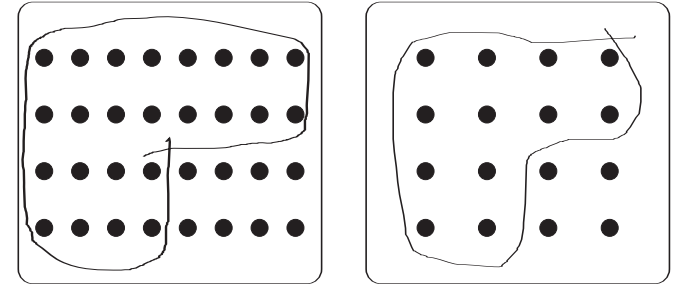
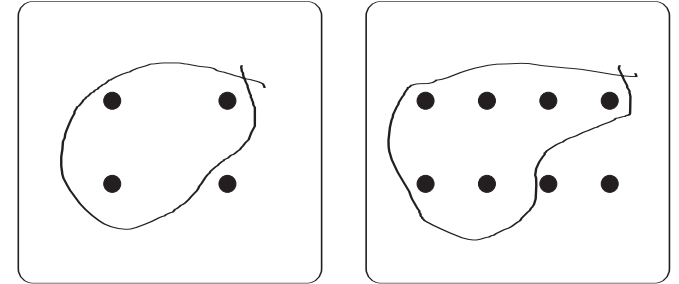
Circle 50% of the dots in each box below



Circle 25% of the dots in each box below



Circle 75% of the dots in each box below



1) $50\% \times 16 = 8$

2) $25\% \times 28 =$

3) $75\% \times 4 =$

4) $50\% \times 52 =$

5) $75\% \times 16 =$

6) $10\% \times 30 =$

7) $50\% \times 36 =$

8) $70\% \times 50 =$

9) $80\% \times 30 =$

10) $5\% \times 40 =$

11) $35\% \times 40 =$

12) $55\% \times 80 =$

13) $90\% \times 200 =$

14) $30\% \times 20 =$

15) $25\% \times 24 =$

16) $40\% \times 25 =$

17) $75\% \times 12 =$

18) $20\% \times 70 =$

19) $25\% \times 48 =$

20) $95\% \times 300 =$

21) $60\% \times 50 =$

22) $100\% \times 87 =$

23) $200\% \times 61 =$

24) $45\% \times 60 =$

25) $15\% \times 60 =$

26) $65\% \times 80 =$

27) $1\% \times 200 =$

28) $2\% \times 300 =$

29) $20\% \times 15 =$

30) $150\% \times 30 =$

1) $50\% \times 16 = 8$

2) $25\% \times 28 = 7$

3) $75\% \times 4 = 3$

4) $50\% \times 52 = 26$

5) $75\% \times 16 = 12$

6) $10\% \times 30 = 3$

7) $50\% \times 36 = 18$

8) $70\% \times 50 = 35$

9) $80\% \times 30 = 24$

10) $5\% \times 40 = 2$

11) $35\% \times 40 = 14$

12) $55\% \times 80 = 44$

13) $90\% \times 200 = 180$

14) $30\% \times 20 = 6$

15) $25\% \times 24 = 6$

16) $40\% \times 25 = 10$

17) $75\% \times 12 = 9$

18) $20\% \times 70 = 14$

19) $25\% \times 48 = 12$

20) $95\% \times 300 = 285$

21) $60\% \times 50 = 30$

22) $100\% \times 87 = 87$

23) $200\% \times 61 = 122$

24) $45\% \times 60 = 27$

25) $15\% \times 60 = 9$

26) $65\% \times 80 = 52$

27) $1\% \times 200 = 2$

28) $2\% \times 300 = 6$

29) $20\% \times 15 = 3$

30) $150\% \times 30 = 45$

1) $25\% \times 720 = 180$

2) $75\% \times 84 =$

3) $20\% \times 85 =$

4) $100\% \times 961 =$

5) $25\% \times 72 =$

6) $90\% \times 680 =$

7) $30\% \times 910 =$

8) $1\% \times 400 =$

9) $2\% \times 600 =$

10) $17\% \times 400 =$

11) $5\% \times 420 =$

12) $15\% \times 800 =$

13) $10\% \times 490 =$

14) $45\% \times 500 =$

15) $55\% \times 180 =$

16) $75\% \times 188 =$

17) $20\% \times 75 =$

18) $40\% \times 90 =$

19) $80\% \times 90 =$

20) $50\% \times 172 =$

21) $200\% \times 862 =$

22) $25\% \times 360 =$

23) $70\% \times 420 =$

24) $60\% \times 400 =$

25) $35\% \times 120 =$

26) $50\% \times 238 =$

27) $95\% \times 900 =$

28) $81\% \times 2000 =$

29) $150\% \times 714 =$

30) $65\% \times 360 =$

1) $25\% \times 720 = 180$

2) $75\% \times 84 = 63$

3) $20\% \times 85 = 17$

4) $100\% \times 961 = 961$

5) $25\% \times 72 = 18$

6) $90\% \times 680 = 612$

7) $30\% \times 910 = 273$

8) $1\% \times 400 = 4$

9) $2\% \times 600 = 12$

10) $17\% \times 400 = 68$

11) $5\% \times 420 = 21$

12) $15\% \times 800 = 120$

13) $10\% \times 490 = 49$

14) $45\% \times 500 = 225$

15) $55\% \times 180 = 99$

16) $75\% \times 188 = 141$

17) $20\% \times 75 = 15$

18) $40\% \times 90 = 36$

19) $80\% \times 90 = 72$

20) $50\% \times 172 = 86$

21) $200\% \times 862 = 1724$

22) $25\% \times 360 = 90$

23) $70\% \times 420 = 294$

24) $60\% \times 400 = 240$

25) $35\% \times 120 = 42$

26) $50\% \times 238 = 119$

27) $95\% \times 900 = 855$

28) $81\% \times 2000 = 1620$

29) $150\% \times 714 = 1071$

30) $65\% \times 360 = 234$



A. Change the following percentages into fractions. Simplify your answers as far as possible.

1) $50\% =$

6) $70\% =$

11) $28\% =$

2) $20\% =$

7) $5\% =$

12) $35\% =$

3) $1\% =$

8) $80\% =$

13) $90\% =$

4) $2\% =$

9) $6\% =$

14) $64\% =$

5) $4\% =$

10) $15\% =$

15) $22\% =$

B. Change the following fractions into percentages.

1) $\frac{1}{4} =$

6) $\frac{2}{25} =$

11) $\frac{4}{25} =$

2) $\frac{1}{10} =$

7) $\frac{17}{20} =$

12) $\frac{49}{50} =$

3) $\frac{3}{4} =$

8) $\frac{3}{10} =$

13) $\frac{24}{25} =$

4) $\frac{2}{5} =$

9) $\frac{17}{50} =$

14) $\frac{3}{5} =$

5) $\frac{9}{50} =$

10) $\frac{9}{20} =$

15) $\frac{19}{20} =$

C. Change the following percentages into decimals.

1) $25\% =$

3) $10\% =$

5) $75\% =$

2) $50\% =$

4) $20\% =$

6) $150\% =$

D. Change the following decimals into percentages.

1) $0.03 =$

3) $0.35 =$

5) $0.72 =$

2) $0.05 =$

4) $0.42 =$

6) $1.09 =$



A. Change the following percentages into fractions. Simplify your answers as far as possible.

1) $50\% = \frac{1}{2}$

6) $70\% = \frac{7}{10}$

11) $28\% = \frac{7}{25}$

2) $20\% = \frac{1}{5}$

7) $5\% = \frac{1}{20}$

12) $35\% = \frac{7}{20}$

3) $1\% = \frac{1}{100}$

8) $80\% = \frac{4}{5}$

13) $90\% = \frac{9}{10}$

4) $2\% = \frac{1}{50}$

9) $6\% = \frac{3}{50}$

14) $64\% = \frac{16}{25}$

5) $4\% = \frac{1}{25}$

10) $15\% = \frac{3}{20}$

15) $22\% = \frac{11}{50}$

B. Change the following fractions into percentages.

1) $\frac{1}{4} = 25\%$

6) $\frac{2}{25} = 8\%$

11) $\frac{4}{25} = 16\%$

2) $\frac{1}{10} = 10\%$

7) $\frac{17}{20} = 85\%$

12) $\frac{49}{50} = 98\%$

3) $\frac{3}{4} = 75\%$

8) $\frac{3}{10} = 30\%$

13) $\frac{24}{25} = 96\%$

4) $\frac{2}{5} = 40\%$

9) $\frac{17}{50} = 34\%$

14) $\frac{3}{5} = 60\%$

5) $\frac{9}{50} = 18\%$

10) $\frac{9}{20} = 45\%$

15) $\frac{19}{20} = 95\%$

C. Change the following percentages into decimals.

1) $25\% = 0.25$

3) $10\% = 0.1$

5) $75\% = 0.75$

2) $50\% = 0.5$

4) $20\% = 0.2$

6) $150\% = 1.5$

D. Change the following decimals into percentages.

1) $0.03 = 3\%$

3) $0.35 = 35\%$

5) $0.72 = 72\%$

2) $0.05 = 5\%$

4) $0.42 = 42\%$

6) $1.09 = 109\%$

Fill in the gaps...

Percentage Increase

	Original Amount	% increase	New Amount
1)	56	25%	
2)	6	50%	
3)	5	20%	
4)	8	75%	14
5)	10	90%	
6)	30	70%	
7)	50	2%	
8)	21	100%	

	Original Amount	% increase	New Amount
9)	32		56
10)	24	25%	30
11)	15		18
12)	30		33
13)	150		153
14)	120		126
15)	200		202
16)	20		50

Percentage Decrease

	Original Amount	% decrease	New Amount
1)	50	30%	
2)	18	50%	
3)	25	4%	
4)	60	35%	
5)	40	15%	
6)	64	75%	16
7)	40	45%	
8)	45	60%	

	Original Amount	% decrease	New Amount
9)	20		19
10)	14		7
11)	90	10%	81
12)	35		21
13)	400		4
14)	50		47
15)	125		115
16)	150		132

Fill in the gaps...

Percentage Increase

	Original Amount	% increase	New Amount
1)	56	25%	70
2)	6	50%	9
3)	5	20%	6
4)	8	75%	14
5)	10	90%	19
6)	30	70%	51
7)	50	2%	51
8)	21	100%	42

	Original Amount	% increase	New Amount
9)	32	75%	56
10)	24	25%	30
11)	15	20%	18
12)	30	10%	33
13)	150	2%	153
14)	120	5%	126
15)	200	1%	202
16)	20	150%	50

Percentage Decrease

	Original Amount	% decrease	New Amount
1)	50	30%	35
2)	18	50%	9
3)	25	4%	24
4)	60	35%	39
5)	40	15%	34
6)	64	75%	16
7)	40	45%	22
8)	45	60%	18

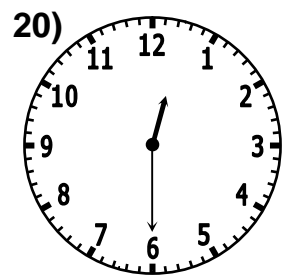
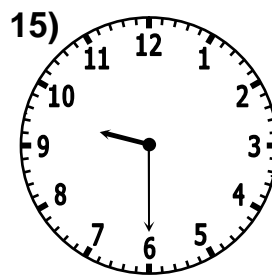
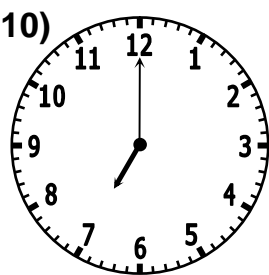
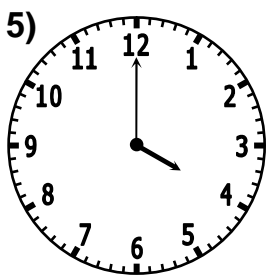
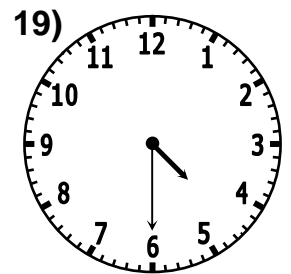
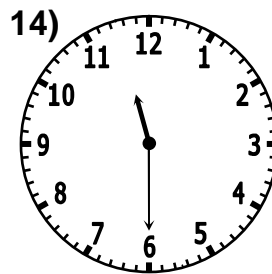
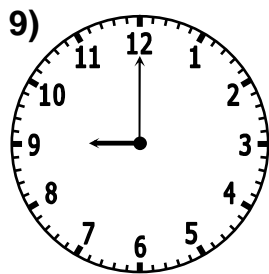
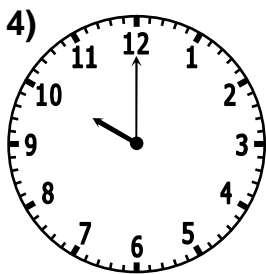
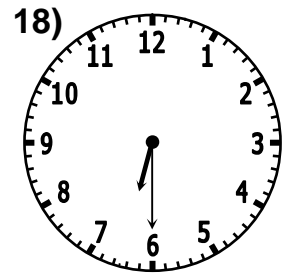
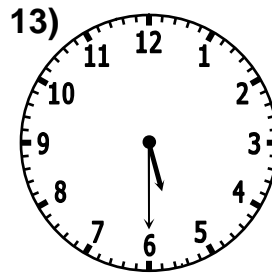
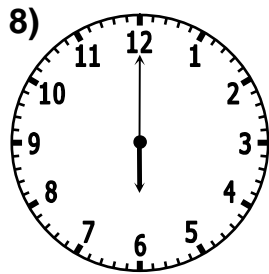
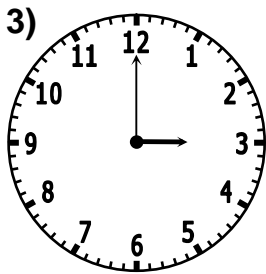
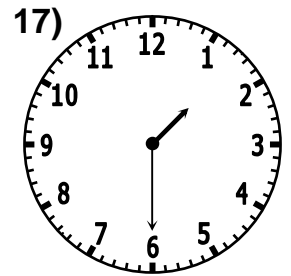
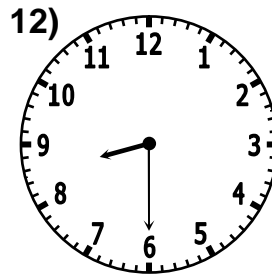
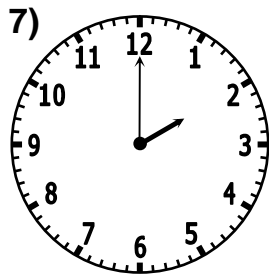
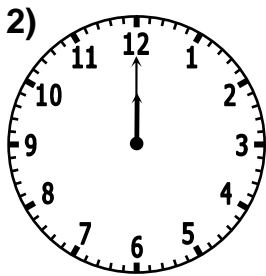
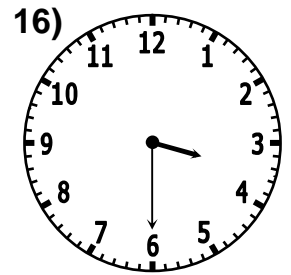
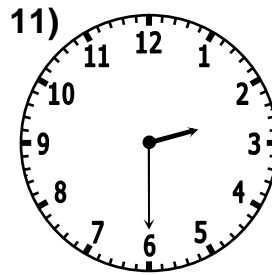
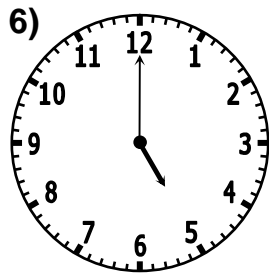
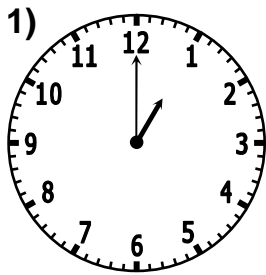
	Original Amount	% decrease	New Amount
9)	20	5%	19
10)	14	50%	7
11)	90	10%	81
12)	35	40%	21
13)	400	99%	4
14)	50	6%	47
15)	125	8%	115
16)	150	12%	132

Later and Earlier (1)

For each of the following write

- a) the time the clock shows now
- b) the time the clock would show 15 minutes later
- c) the time the clock would show 30 minutes later
- d) the time the clock would have shown 1 hour earlier

1 a) 1:00 b) 1:15 c) 1:30 d) 12:00





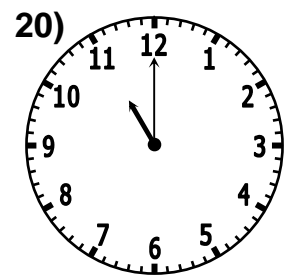
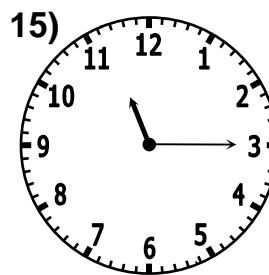
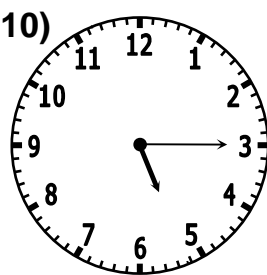
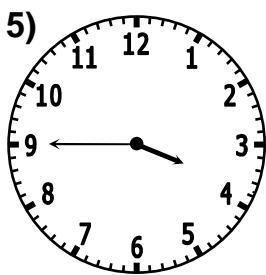
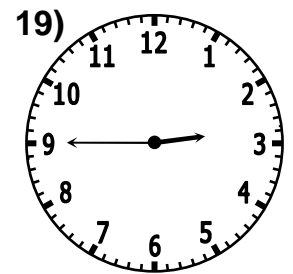
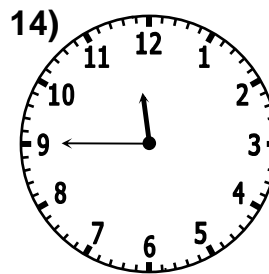
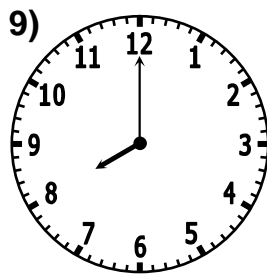
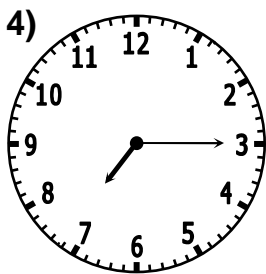
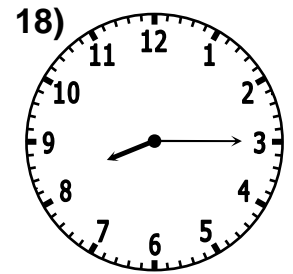
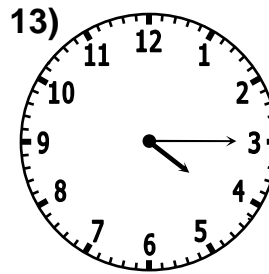
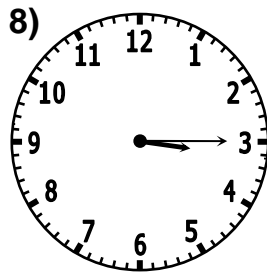
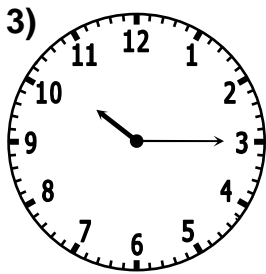
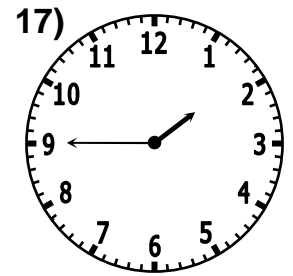
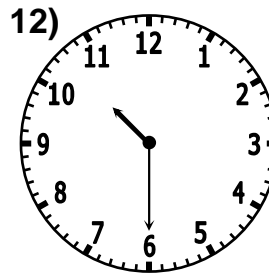
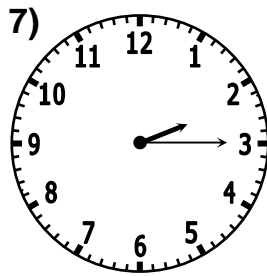
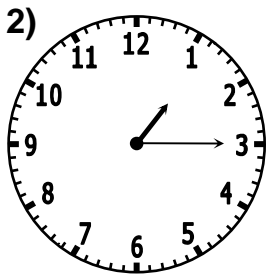
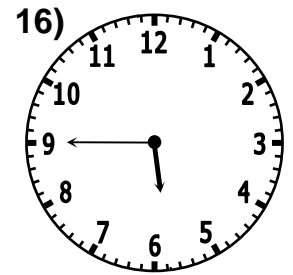
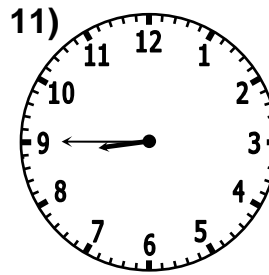
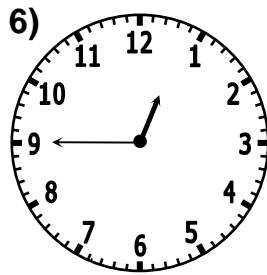
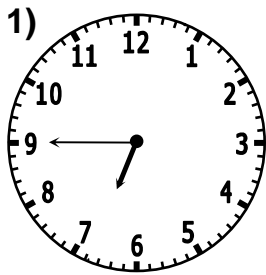
- | | | | | | | | |
|---|--|----|--|----|--|----|---|
| 1 | a) 1:00
b) 1:15
c) 1:30
d) 12:00 | 6 | a) 5:00
b) 5:15
c) 5:30
d) 4:00 | 11 | a) 2:30
b) 2:45
c) 3:00
d) 1:30 | 16 | a) 3:30
b) 3:45
c) 4:00
d) 2:30 |
| 2 | a) 12:00
b) 12:15
c) 12:30
d) 11:00 | 7 | a) 2:00
b) 2:15
c) 2:30
d) 1:00 | 12 | a) 8:30
b) 8:45
c) 9:00
d) 7:30 | 17 | a) 1:30
b) 1:45
c) 2:00
d) 12:30 |
| 3 | a) 3:00
b) 3:15
c) 3:30
d) 2:00 | 8 | a) 6:00
b) 6:15
c) 6:30
d) 5:00 | 13 | a) 5:30
b) 5:45
c) 6:00
d) 4:30 | 18 | a) 6:30
b) 6:45
c) 7:00
d) 5:30 |
| 4 | a) 10:00
b) 10:15
c) 10:30
d) 9:00 | 9 | a) 9:00
b) 9:15
c) 9:30
d) 8:00 | 14 | a) 11:30
b) 11:45
c) 12:00
d) 10:30 | 19 | a) 4:30
b) 4:45
c) 5:00
d) 3:30 |
| 5 | a) 4:00
b) 4:15
c) 4:30
d) 3:00 | 10 | a) 7:00
b) 7:15
c) 7:30
d) 6:00 | 15 | a) 9:30
b) 9:45
c) 10:00
d) 8:30 | 20 | a) 12:30
b) 12:45
c) 1:00
d) 11:30 |

Later and Earlier (2)

For each of the following write

- a) the time the clock shows now
- b) the time the clock would show 15 minutes later
- c) the time the clock would show 45 minutes later
- d) the time the clock would have shown 1 hour and 30 minutes earlier

1 a) 6:45 b) 7:00 c) 7:30 d) 5:15





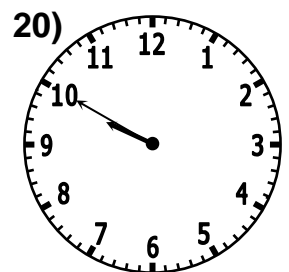
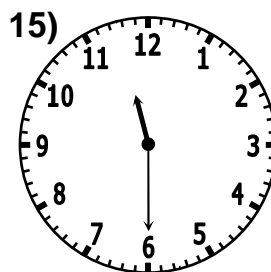
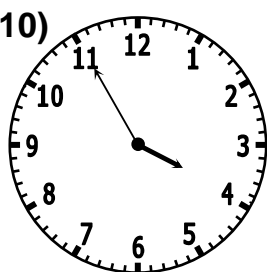
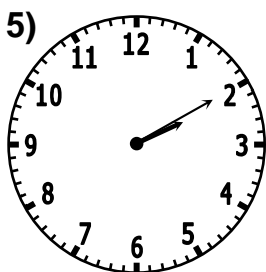
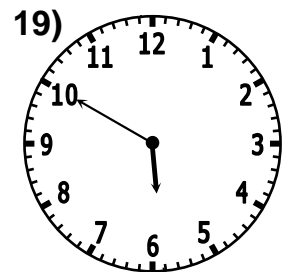
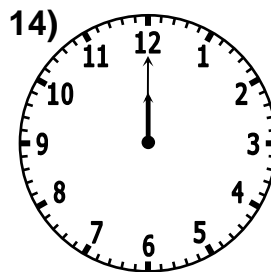
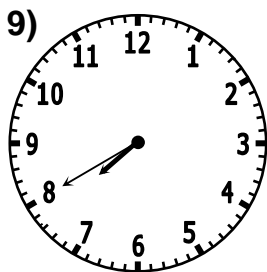
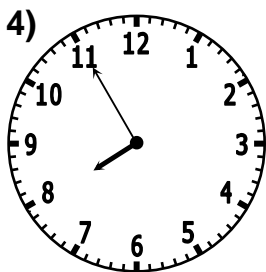
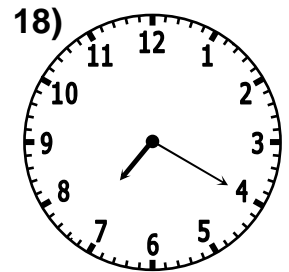
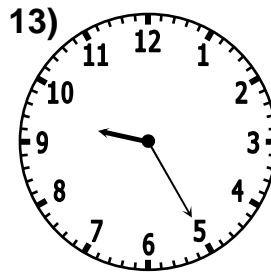
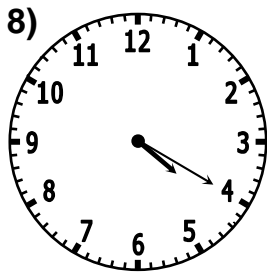
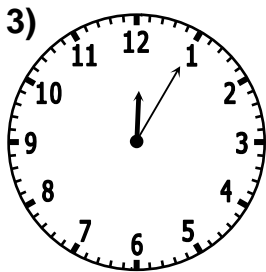
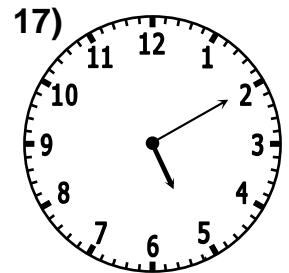
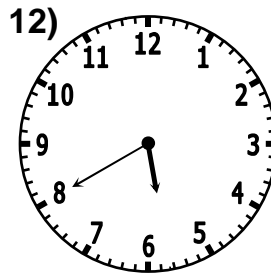
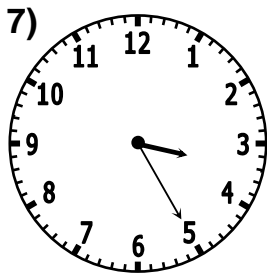
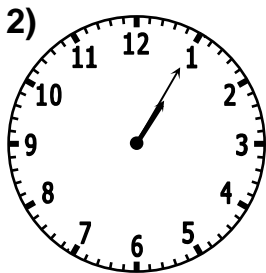
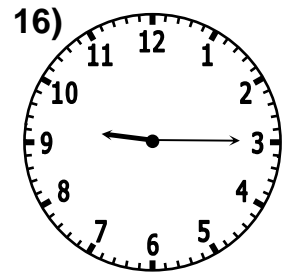
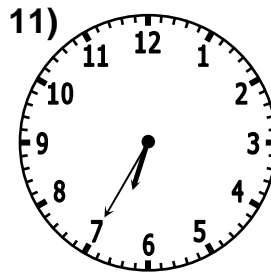
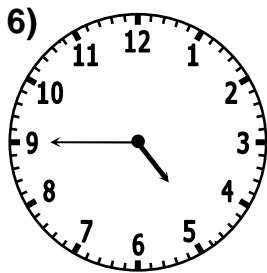
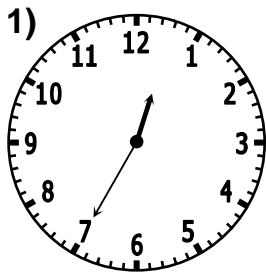
- | | | | | | | | |
|---|---|----|--|----|--|----|---|
| 1 | a) 6:45
b) 7:00
c) 7:30
d) 5:15 | 6 | a) 12:45
b) 1:00
c) 1:30
d) 11:15 | 11 | a) 8:45
b) 9:00
c) 9:30
d) 7:15 | 16 | a) 5:45
b) 6:00
c) 6:30
d) 4:15 |
| 2 | a) 1:15
b) 1:30
c) 2:00
d) 11:45 | 7 | a) 2:15
b) 2:30
c) 3:00
d) 12:45 | 12 | a) 10:30
b) 10:45
c) 11:15
d) 9:00 | 17 | a) 1:45
b) 2:00
c) 2:30
d) 12:15 |
| 3 | a) 10:15
b) 10:30
c) 11:00
d) 8:45 | 8 | a) 3:15
b) 3:30
c) 4:00
d) 1:45 | 13 | a) 4:15
b) 4:30
c) 5:00
d) 2:45 | 18 | a) 8:15
b) 8:30
c) 9:00
d) 6:45 |
| 4 | a) 7:15
b) 7:30
c) 8:00
d) 5:45 | 9 | a) 8:00
b) 8:15
c) 8:45
d) 6:30 | 14 | a) 11:45
b) 12:00
c) 12:30
d) 10:15 | 19 | a) 2:45
b) 3:00
c) 3:30
d) 1:15 |
| 5 | a) 3:45
b) 4:00
c) 4:30
d) 2:15 | 10 | a) 5:15
b) 5:30
c) 6:00
d) 3:45 | 15 | a) 11:15
b) 11:30
c) 12:00
d) 9:45 | 20 | a) 11:00
b) 11:15
c) 11:45
d) 9:30 |

◊ Later and Earlier (3) ◻

For each of the following write

- a) the time the clock shows now
- b) the time the clock would show 25 minutes later
- c) the time the clock would have shown 55 minutes earlier
- d) the time the clock would show 2 hours 35 minutes later

1 a) 12:35 b) 1:00 c) 11:40 d) 3:10





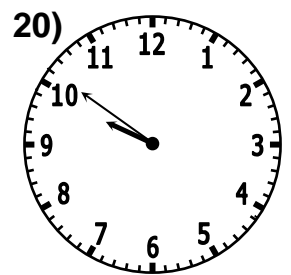
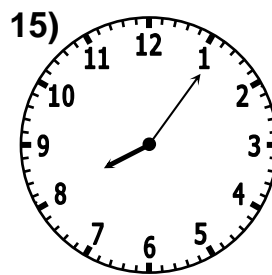
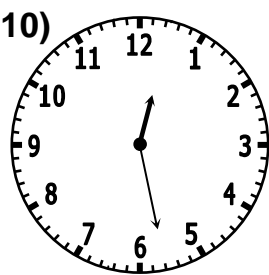
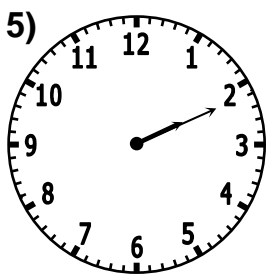
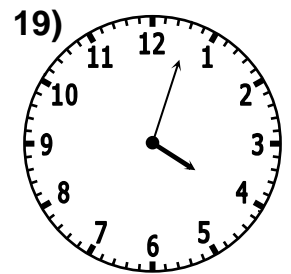
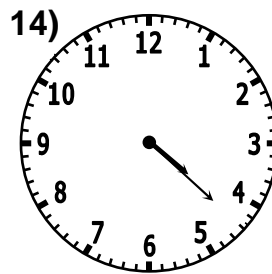
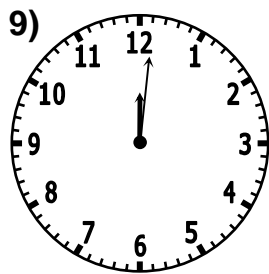
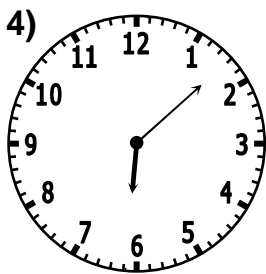
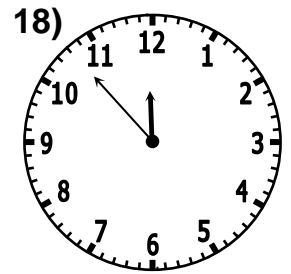
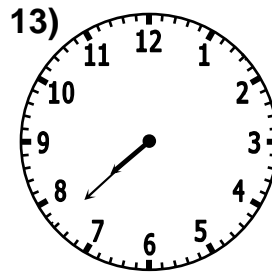
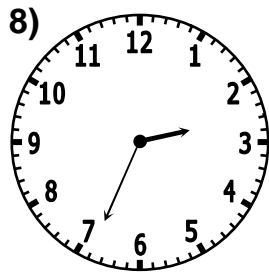
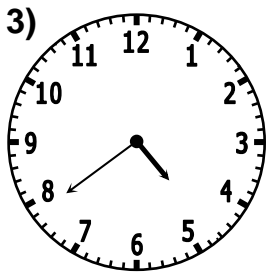
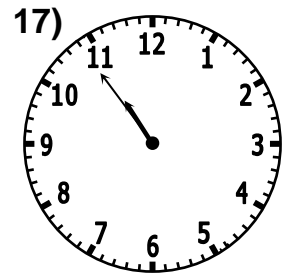
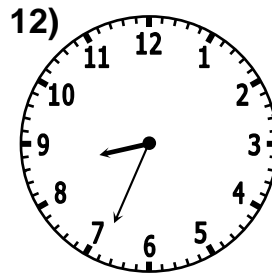
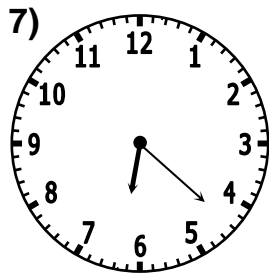
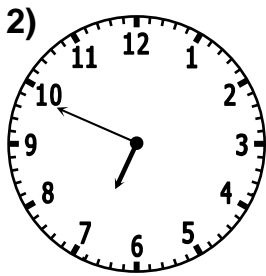
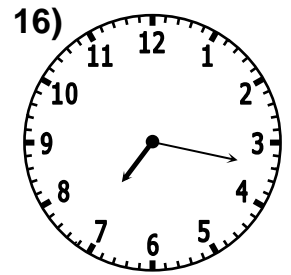
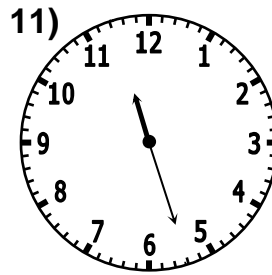
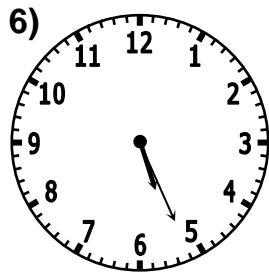
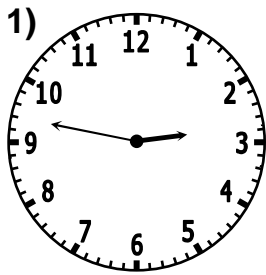
- | | | | | | | | |
|---|---|----|---|----|---|----|--|
| 1 | a) 12:35
b) 1:00
c) 11:40
d) 3:10 | 6 | a) 4:45
b) 5:10
c) 3:50
d) 7:20 | 11 | a) 6:35
b) 7:00
c) 5:40
d) 9:10 | 16 | a) 9:15
b) 9:40
c) 8:20
d) 11:50 |
| 2 | a) 1:05
b) 1:30
c) 12:10
d) 3:40 | 7 | a) 3:25
b) 3:50
c) 2:30
d) 6:00 | 12 | a) 5:40
b) 6:05
c) 4:45
d) 8:15 | 17 | a) 5:10
b) 5:35
c) 4:15
d) 7:45 |
| 3 | a) 12:05
b) 12:30
c) 11:10
d) 2:40 | 8 | a) 4:20
b) 4:45
c) 3:25
d) 6:55 | 13 | a) 9:25
b) 9:50
c) 8:30
d) 12:00 | 18 | a) 7:20
b) 7:45
c) 6:25
d) 9:55 |
| 4 | a) 7:55
b) 8:20
c) 7:00
d) 10:30 | 9 | a) 7:40
b) 8:05
c) 6:45
d) 10:15 | 14 | a) 12:00
b) 12:25
c) 11:05
d) 2:35 | 19 | a) 5:50
b) 6:15
c) 4:55
d) 8:25 |
| 5 | a) 2:10
b) 2:35
c) 1:15
d) 4:45 | 10 | a) 3:55
b) 4:20
c) 3:00
d) 6:30 | 15 | a) 11:30
b) 11:55
c) 10:35
d) 2:05 | 20 | a) 9:50
b) 10:15
c) 8:55
d) 12:25 |

◊ Later and Earlier (4) ◻

For each of the following write

- a) the time the clock shows now
- b) the time the clock would show 18 minutes later
- c) the time the clock would have shown 2 hours 36 minutes earlier
- d) the time the clock would show 3 hours 48 minutes later

1 a) 2:47 b) 3:05 c) 12:11 d) 6:35





- 1 a) 2:47
b) 3:05
c) 12:11
d) 6:35

- 6 a) 5:26
b) 5:44
c) 2:50
d) 9:14

- 11 a) 11:27
b) 11:45
c) 8:51
d) 3:15

- 16 a) 7:17
b) 7:35
c) 4:41
d) 11:05

- 2 a) 6:49
b) 7:07
c) 4:13
d) 10:37

- 7 a) 6:22
b) 6:40
c) 3:46
d) 10:10

- 12 a) 8:34
b) 8:52
c) 5:58
d) 12:22

- 17 a) 10:54
b) 11:12
c) 8:18
d) 2:42

- 3 a) 4:39
b) 4:57
c) 2:03
d) 8:27

- 8 a) 2:34
b) 2:52
c) 11:58
d) 6:22

- 13 a) 7:38
b) 7:56
c) 5:02
d) 11:26

- 18 a) 11:53
b) 12:11
c) 9:17
d) 3:41

- 4 a) 6:08
b) 6:26
c) 3:32
d) 9:56

- 9 a) 12:01
b) 12:19
c) 9:25
d) 3:49

- 14 a) 4:22
b) 4:40
c) 1:46
d) 8:10

- 19 a) 4:03
b) 4:21
c) 1:27
d) 7:51

- 5 a) 2:11
b) 2:29
c) 11:35
d) 5:59

- 10 a) 12:28
b) 12:46
c) 9:52
d) 4:16

- 15 a) 8:06
b) 8:24
c) 5:30
d) 11:54

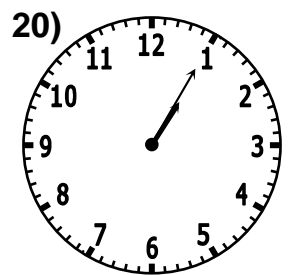
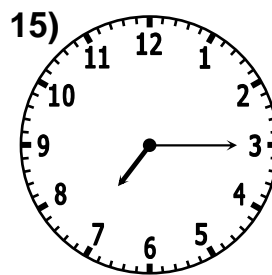
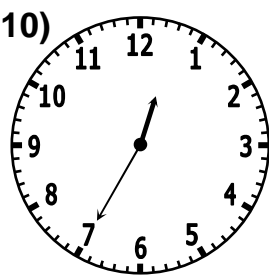
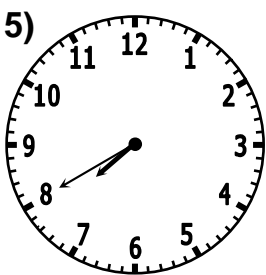
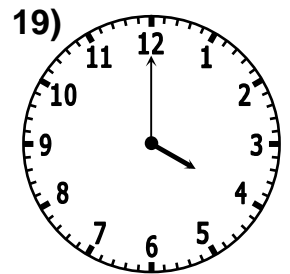
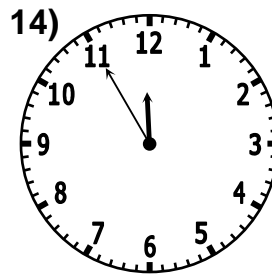
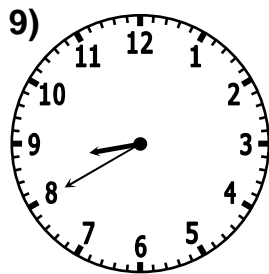
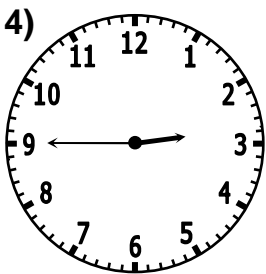
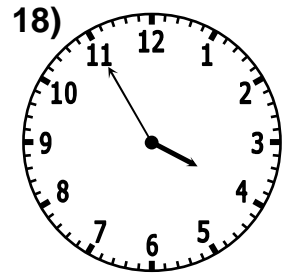
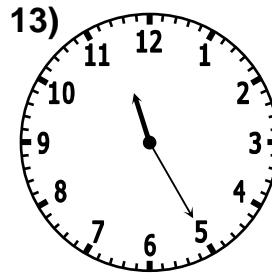
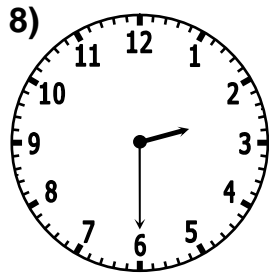
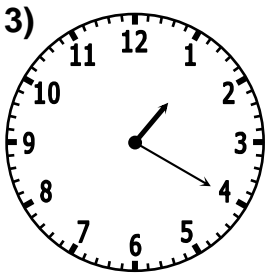
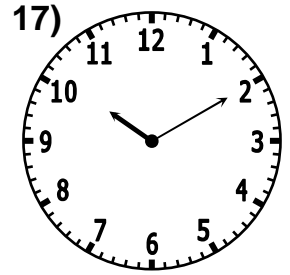
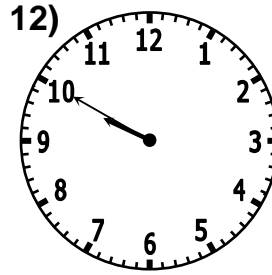
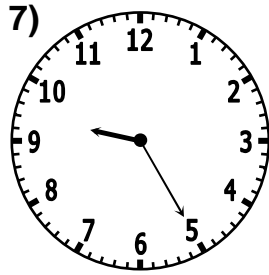
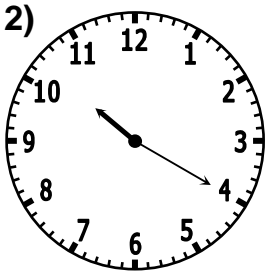
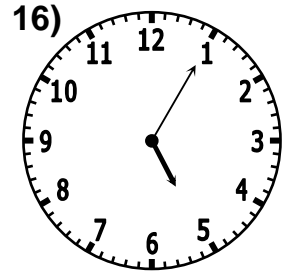
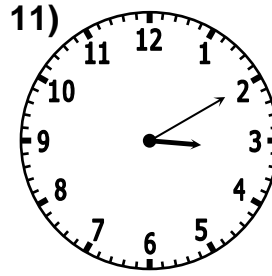
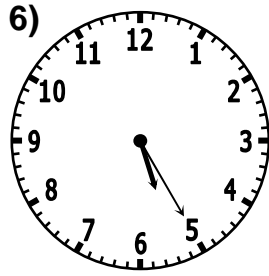
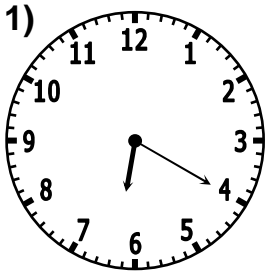
- 20 a) 9:51
b) 10:09
c) 7:15
d) 1:39

24 hour clock

For each of the clocks below, what would a **24 hour** digital clock show

- a) if it was **am** (after midnight but before midday)?
- b) if it was **pm** (after midday but before midnight)?

1 a) 06:20 b) 18:20



1 a) 06:20
b) 18:20

6 a) 05:25
b) 17:25

11 a) 03:10
b) 15:10

16 a) 05:05
b) 17:05

2 a) 10:20
b) 22:20

7 a) 09:25
b) 21:25

12 a) 09:50
b) 21:50

17 a) 10:10
b) 22:10

3 a) 01:20
b) 13:20

8 a) 02:30
b) 14:30

13 a) 11:25
b) 23:25

18 a) 03:55
b) 15:55

4 a) 02:45
b) 14:45

9 a) 08:40
b) 20:40

14 a) 11:55
b) 23:55

19 a) 04:00
b) 16:00

5 a) 07:40
b) 19:40

10 a) 00:35
b) 12:35

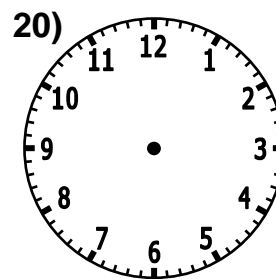
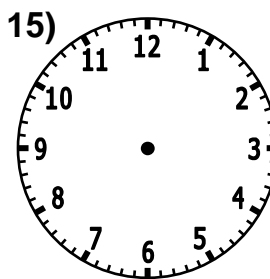
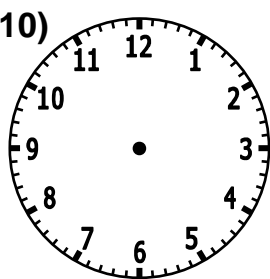
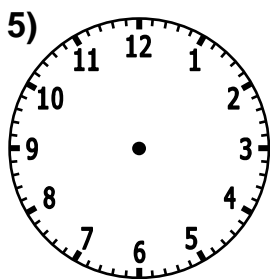
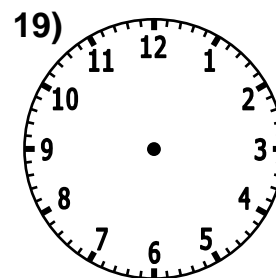
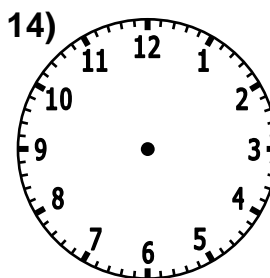
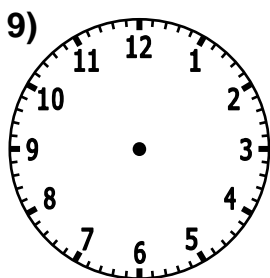
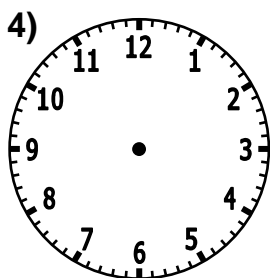
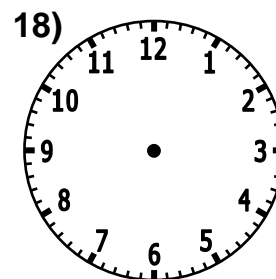
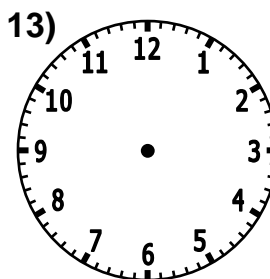
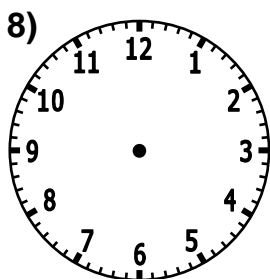
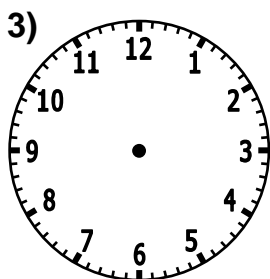
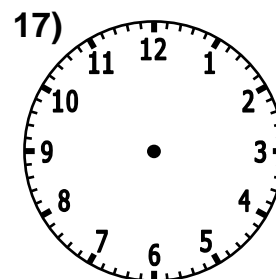
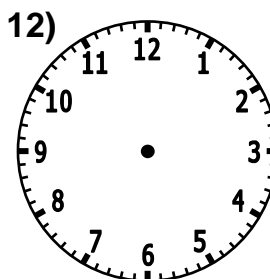
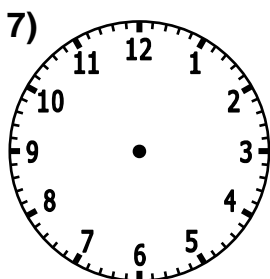
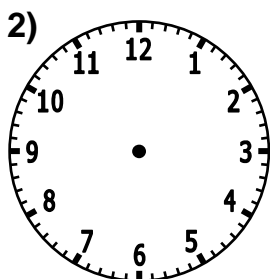
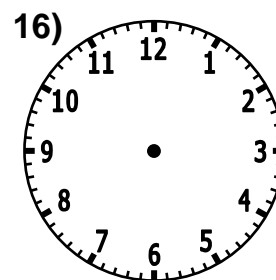
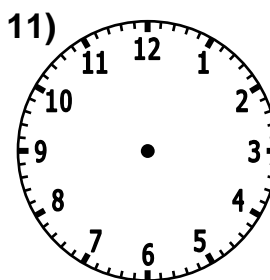
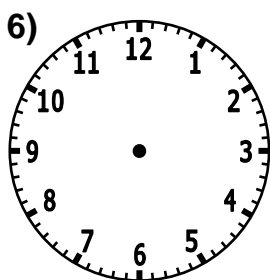
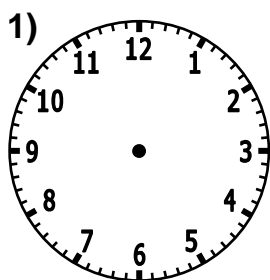
15 a) 07:15
b) 19:15

20 a) 01:05
b) 13:05

Digital to Analogue

Show the following times on the clocks below:

- | | | | |
|----------|----------|-----------|----------|
| 1) 9:30 | 6) 10:50 | 11) 1:20 | 16) 5:25 |
| 2) 11:40 | 7) 3:35 | 12) 3:15 | 17) 2:10 |
| 3) 4:25 | 8) 12:55 | 13) 2:45 | 18) 7:15 |
| 4) 6:10 | 9) 4:50 | 14) 10:00 | 19) 7:05 |
| 5) 1:20 | 10) 5:05 | 15) 8:40 | 20) 6:35 |



Digital to Analogue □

Show the following times on the clocks below:

- | | | | |
|----------|----------|-----------|----------|
| 1) 9:30 | 6) 10:50 | 11) 1:20 | 16) 5:25 |
| 2) 11:40 | 7) 3:35 | 12) 3:15 | 17) 2:10 |
| 3) 4:25 | 8) 12:55 | 13) 2:45 | 18) 7:15 |
| 4) 6:10 | 9) 4:50 | 14) 10:00 | 19) 7:05 |
| 5) 1:20 | 10) 5:05 | 15) 8:40 | 20) 6:35 |

