Mighty Math

for 4-6 year olds
Beginner Mathematician
BOOK 3

Introducing

ADDITION AND SUBTRACTION

Kim Freeman

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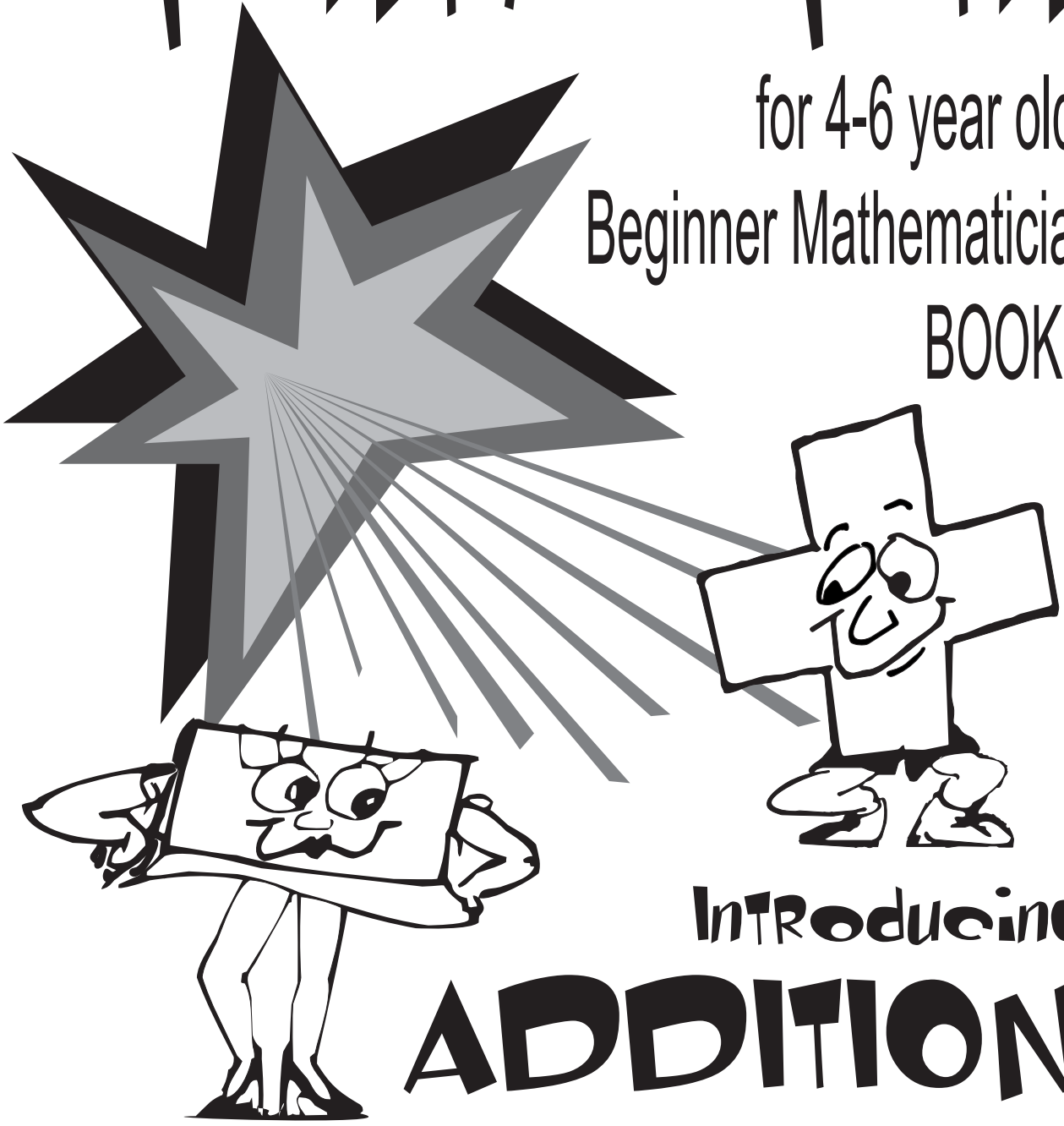


Introducing

ADDITION AND SUBTRACTION

Kim Freeman

HOW CAN YOU HELP YOUR CHILD IN MATHEMATICS?

Swimming lessons, sports team practice and playtime as well as English and Math work are all important to help children lead a balanced life.

HOW CAN I MOTIVATE MY CHILD?

Setting up a place which has no distractions is the first key. This can still be the lounge or family room, however during this time all televisions and stereos are turned off. Encouragement will gradually shape your child's attitude to value learning. Of course it is more fun to do any activity when parents or older sisters and brothers are keen to explain and help.

HOW CAN I MAKE THE BEST USE OF THIS BOOK?

Book 3 at this level teaches the arithmetic operations of addition and subtraction.

- Choose a time when your child is alert and eager to learn.
- Sit down and explain each of the concepts.
- Reinforce concepts in the book by showing them the number line. When adding, move to the right and when subtracting, move left. There are different ways of writing addition (e.g. plus, add, total, sum) and subtraction (e.g. minus and takeaway). Addition results in a bigger number, while subtraction results in a smaller number.
- Try giving extra examples especially if your child is having difficulty.

WHAT HAPPENS IF MY CHILD DOES NOT GET THE ANSWERS CORRECT?

Parents can still help their child understand and absorb the material, however it is important that they do not do the work for them. Go over the pages, praise what has been done right and talk about what has gone wrong. Rub out their answers then let them try that page again or make up some more examples on your own paper. With some children this process will take time, however practice and repetition will lead to increased confidence in mathematics.

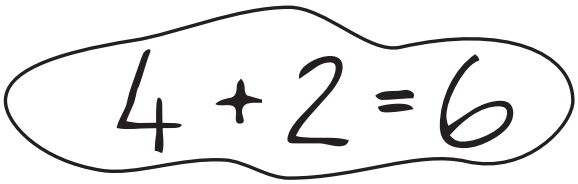
HOW LONG SHOULD MY CHILD SPEND ON MATHEMATICS?

Remember that at this level, if a child works for 15 minutes a day, they are completing nearly 2 hours extra work per week and over 90 hours per year. This is extra to their regular school lessons and sets a pattern for later years.

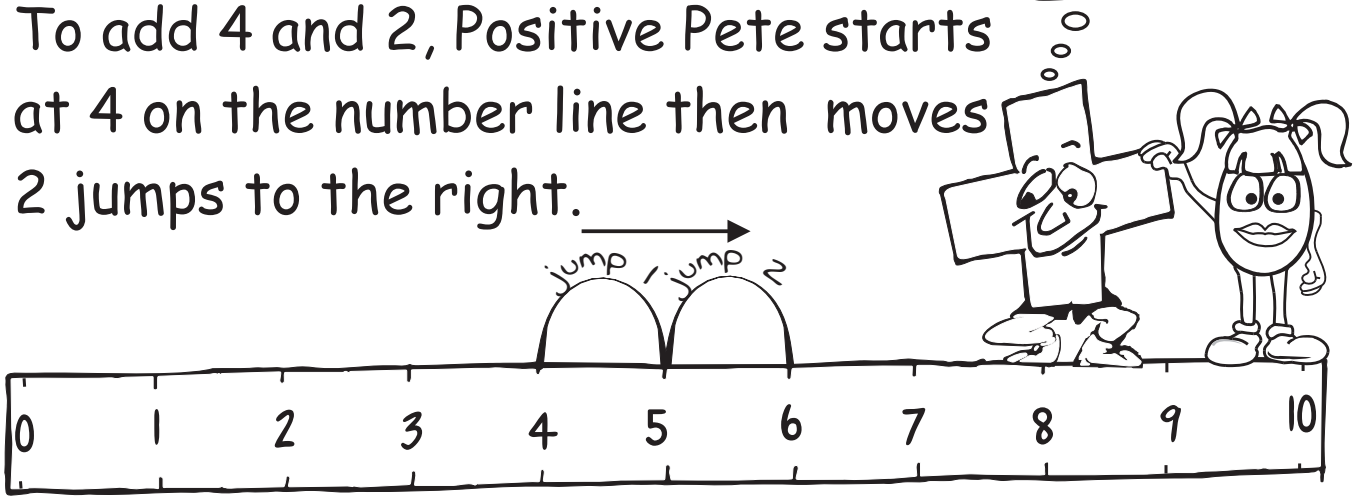
Above all, instill an enjoyment of mathematics and its challenges. Success and confidence in any subject inevitably lead to an enjoyment of learning. We hope that you and your child have fun as they learn with the Mighty Math series. At Mahobe, we certainly had fun putting it all together for you.

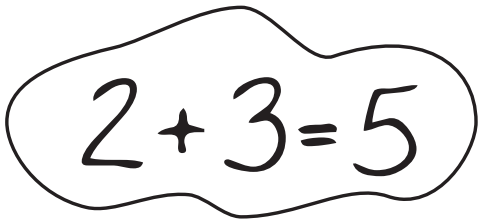
Addition with Alicia Addison

Positive Pete shows Alicia Addison how to add.

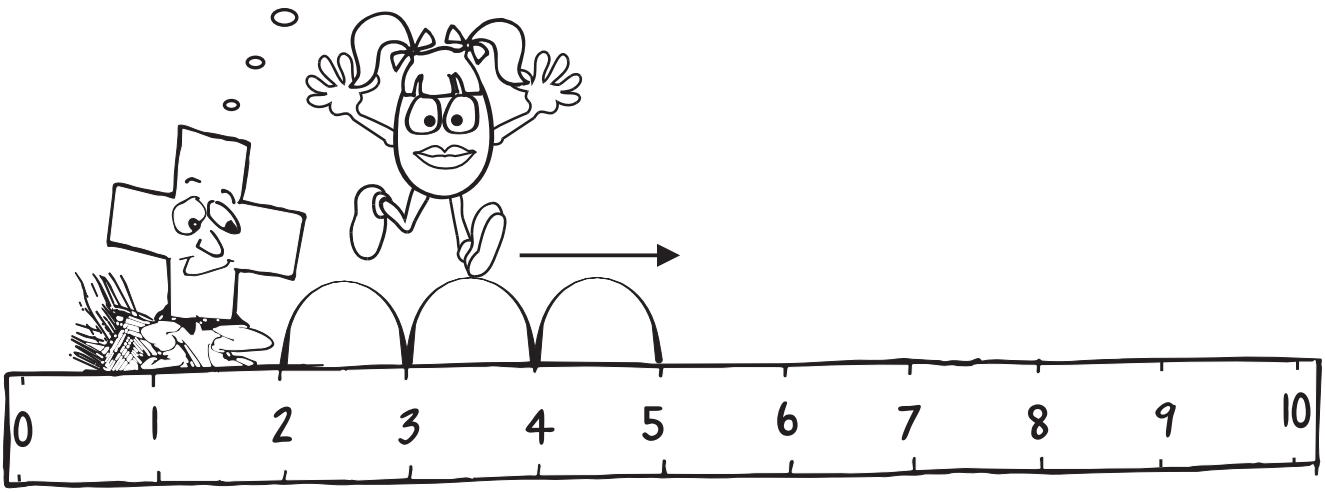


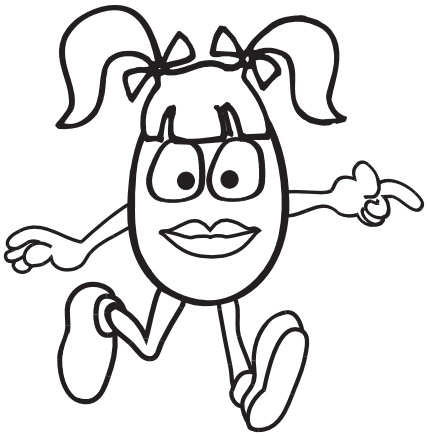
To add 4 and 2, Positive Pete starts at 4 on the number line then moves 2 jumps to the right.

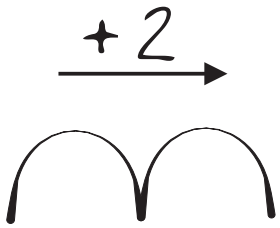




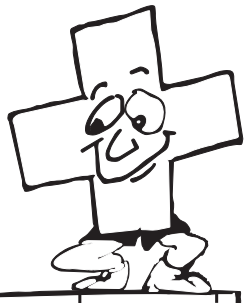
To add 2 and 3, Alicia starts at 2 on the number line then moves 3 jumps to the right.

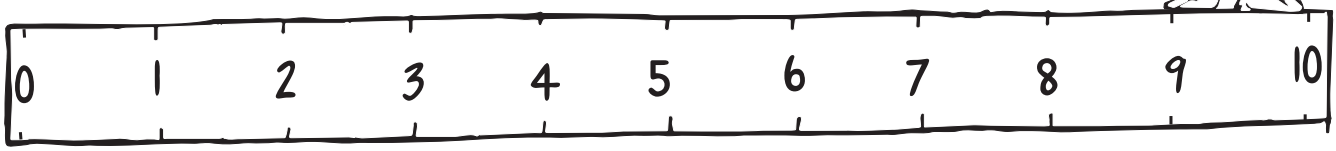






Use Pete's number line to help with these addition sums.





1 + 2 =

3 + 2 =

4 + 2 =

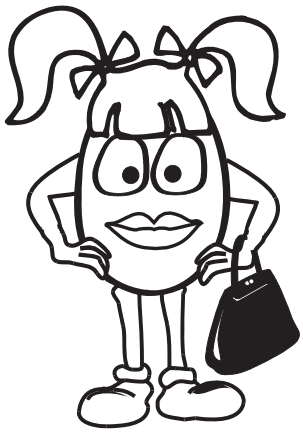
8 + 2 =

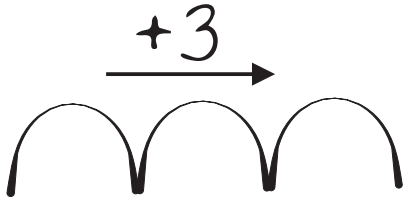
7 + 2 =

5 + 2 =

2 + 2 =

6 + 2 =





Let's help Alicia with these plus 3 addition sums.

1 + 3 =

3 + 3 =

7 + 3 =

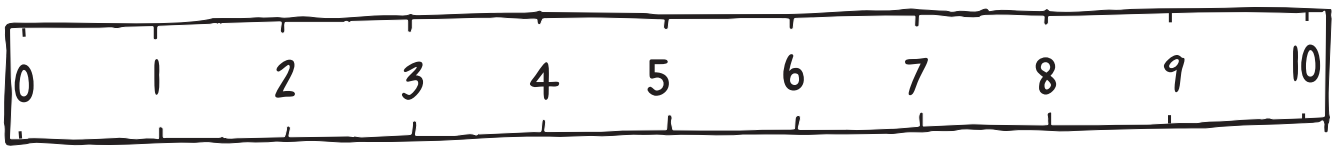
2 + 3 =

0 + 3 =

5 + 3 =

4 + 3 =

6 + 3 =



1 + 4 =

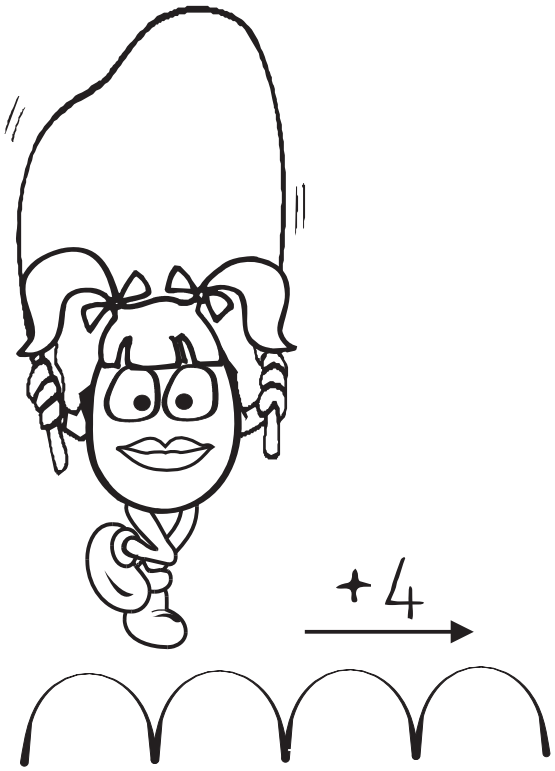
3 + 4 =

6 + 4 =

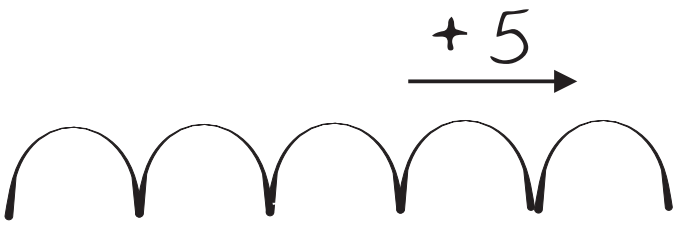
2 + 4 =

5 + 4 =

4 + 4 =



Alicia skips through some more addition sums.

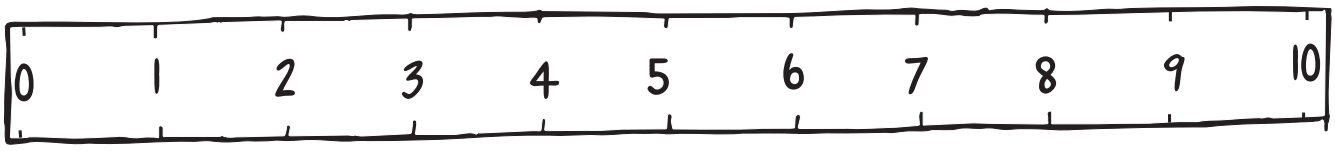


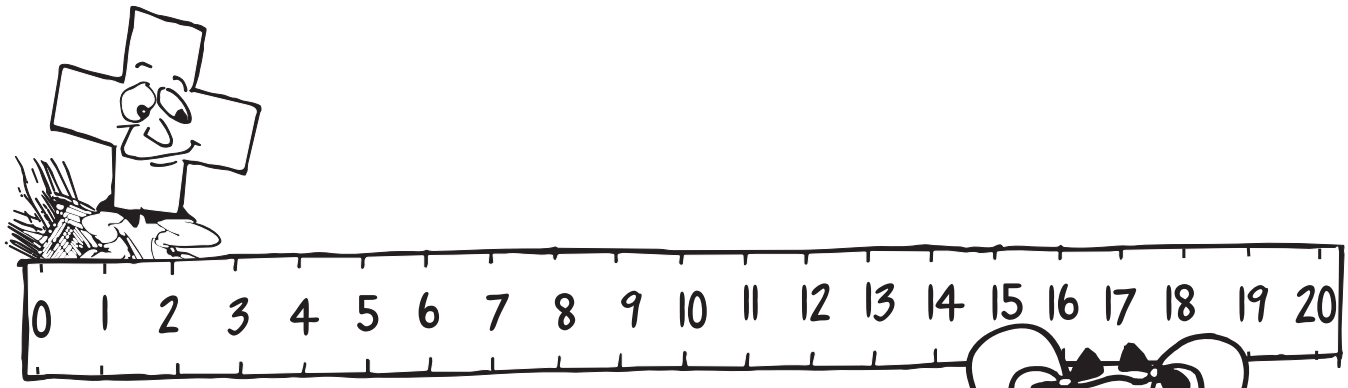
3 + 5 =

2 + 5 =

1 + 5 =

4 + 5 =





To help you calculate these next addition sums, Pete has drawn Alicia a number line up to 20.

$8 + 4 =$ $9 + 2 =$

$6 + 1 =$ $7 + 4 =$

$10 + 3 =$ $12 + 3 =$

$8 + 1 =$ $15 + 4 =$

$11 + 2 =$ $17 + 2 =$

$7 + 3 =$

$9 + 2 =$

$13 + 5 =$

$18 + 1 =$

$16 + 2 =$

$11 + 4 =$

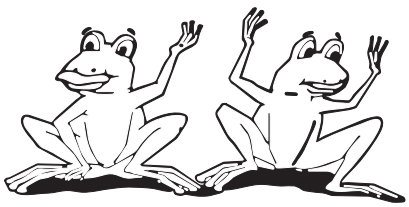
$12 + 1 =$

$15 + 2 =$

$14 + 4 =$

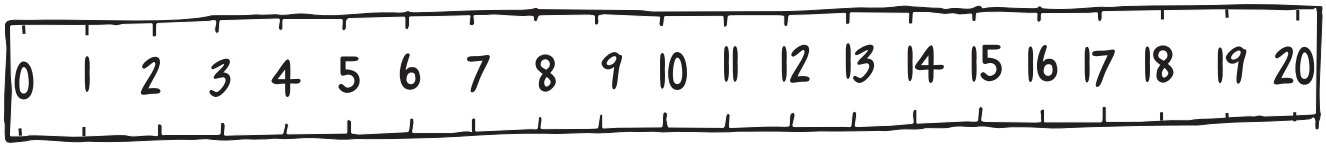
$8 + 2 =$

$9 + 3 =$

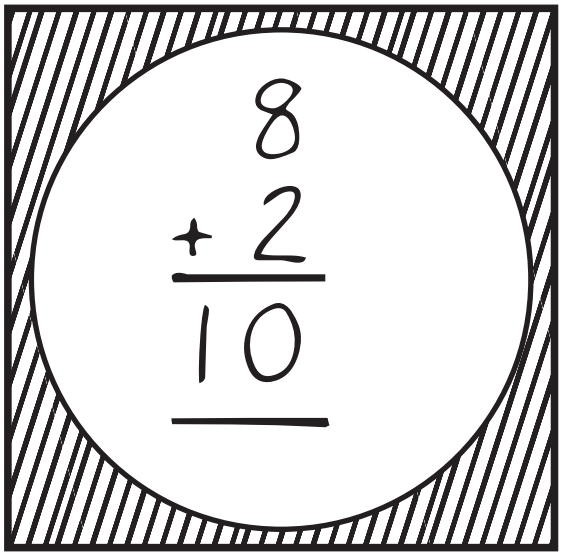


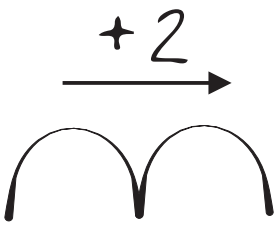
Frogs Frank and Fred would leap at the chance to do some addition.

$17 + 2 =$

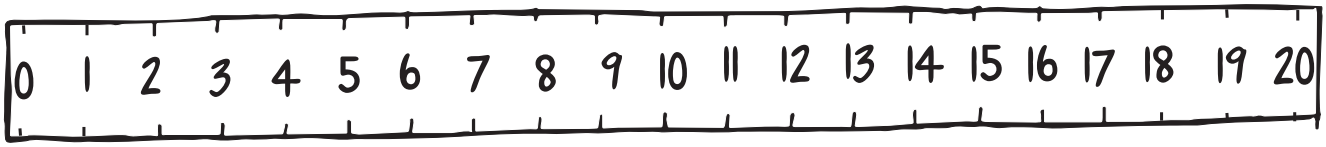


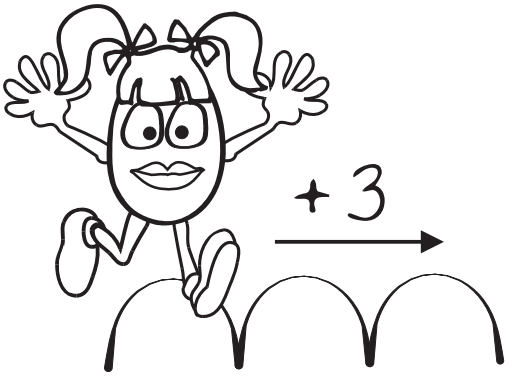
Sometimes addition sums are written like this.



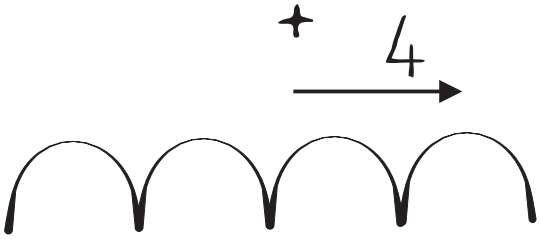


7	5	12	9
+ 2	+ 2	+ 2	+ 2
———	———	———	———

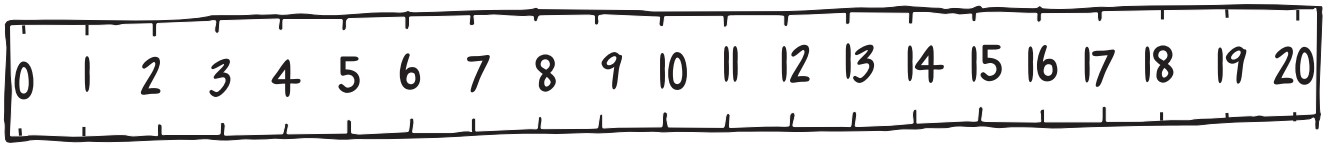




5	7	10	15
+ 3	+ 3	+ 3	+ 3

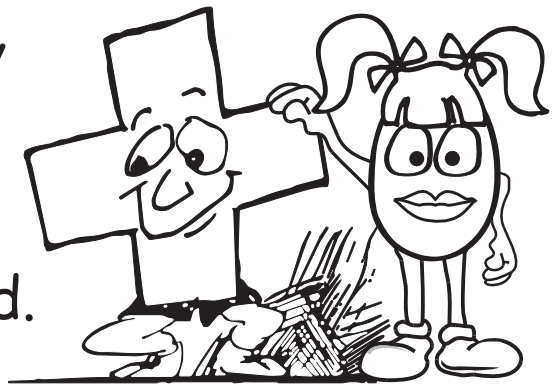


3	6	8	13
+ 4	+ 4	+ 4	+ 4



$$\begin{array}{r} 9 \\ +\ 1 \\ \hline \\ \hline \end{array}$$

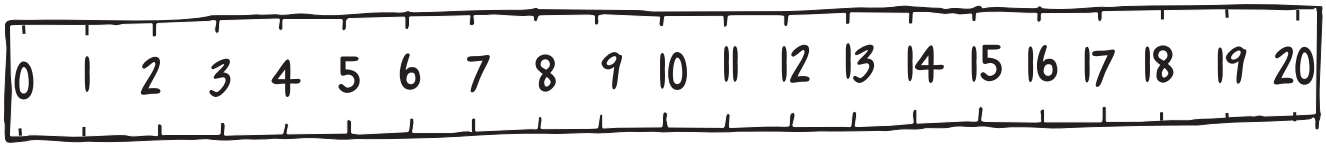
Pete dropped by to remind you to get your answers checked.



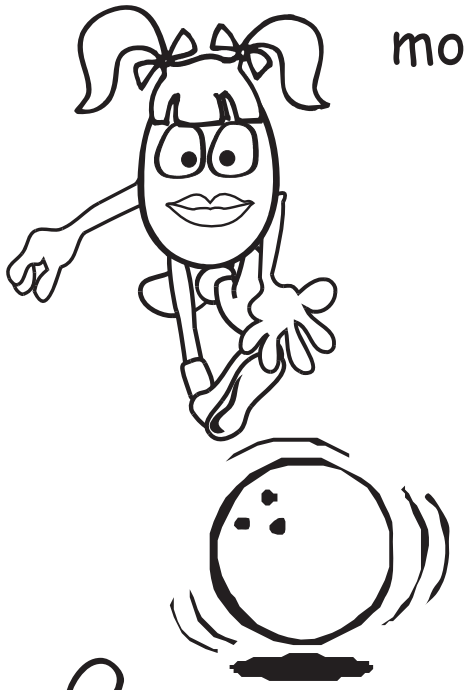
$$\begin{array}{r} 5 \\ +\ 2 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ +\ 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ +\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 13 \\ +\ 5 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 11 \\ +\ 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ +\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ +\ 4 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ +\ 5 \\ \hline \\ \hline \end{array}$$



Alicia bowls you some more addition to try.

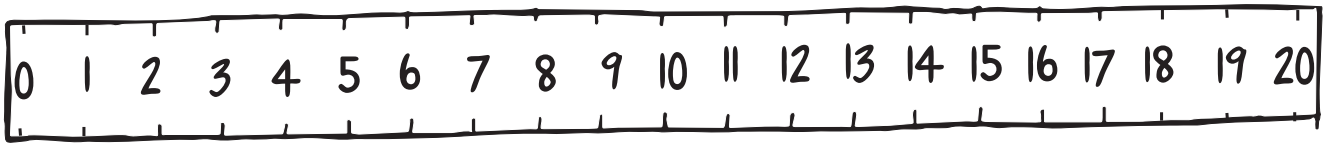


$$\begin{array}{r} 6 \\ +\,3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ +\,4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +\,2 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 14 \\ +\,3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 17 \\ +\,2 \\ \hline \\ \hline \end{array}$$

$18 + 2 =$ $13 + 4 =$

$15 + 1 =$ $12 + 5 =$



$16 + 3 =$

$14 + 4 =$

$9 + 5 =$

$6 + 3 =$

$$\begin{array}{r} 8 \\ +\ 3 \\ \hline \\ \hline \end{array}$$

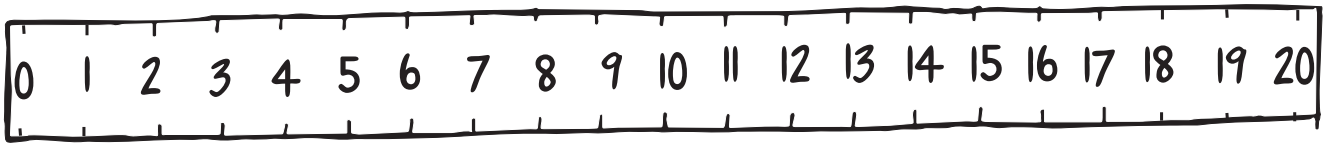
$$\begin{array}{r} 13 \\ +\ 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ +\ 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ +\ 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ +\ 4 \\ \hline \\ \hline \end{array}$$

Alicia is at the supermarket to get some more addition sums.



Add 2 to each number. + 2

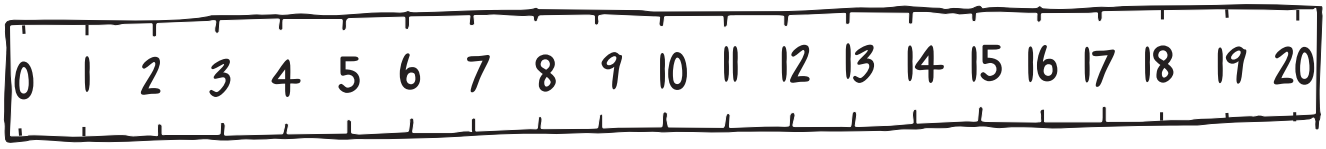
3	1	5	12	9	15

Add 3 to each number. + 3

6	2	0	11	7	13

Add 4 to each number. + 4

12	9	5	10	8	4

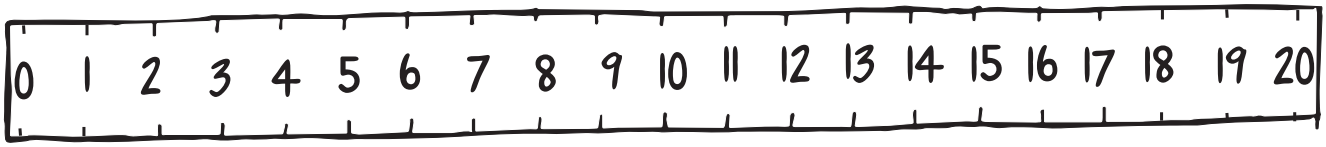


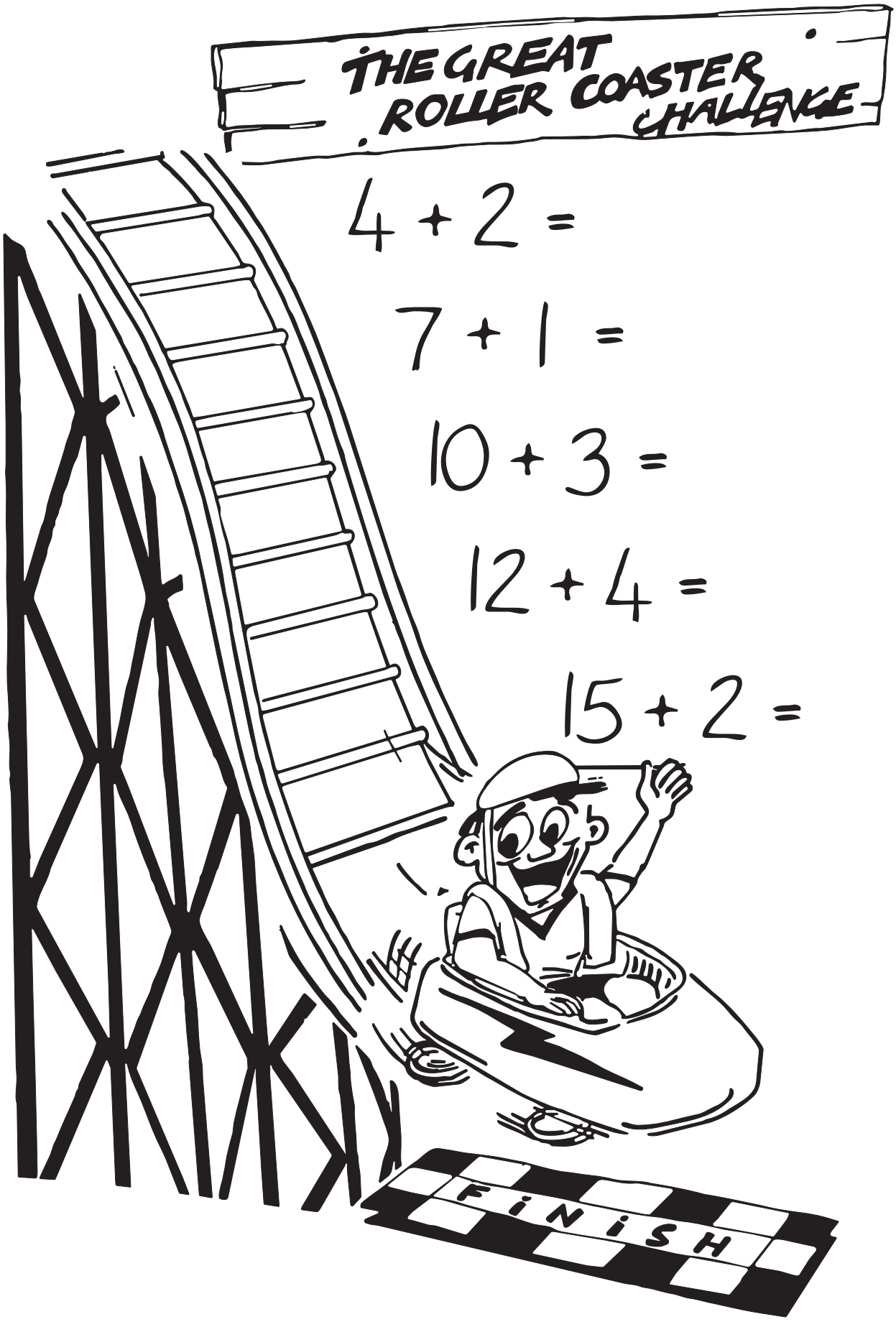
+	1	2	3
2			
3			
4			7

Alicia is always searching the newspaper for new exciting addition sums to try.

+	4	7	10
2			
3			
4			

$3 + 4 = 7$

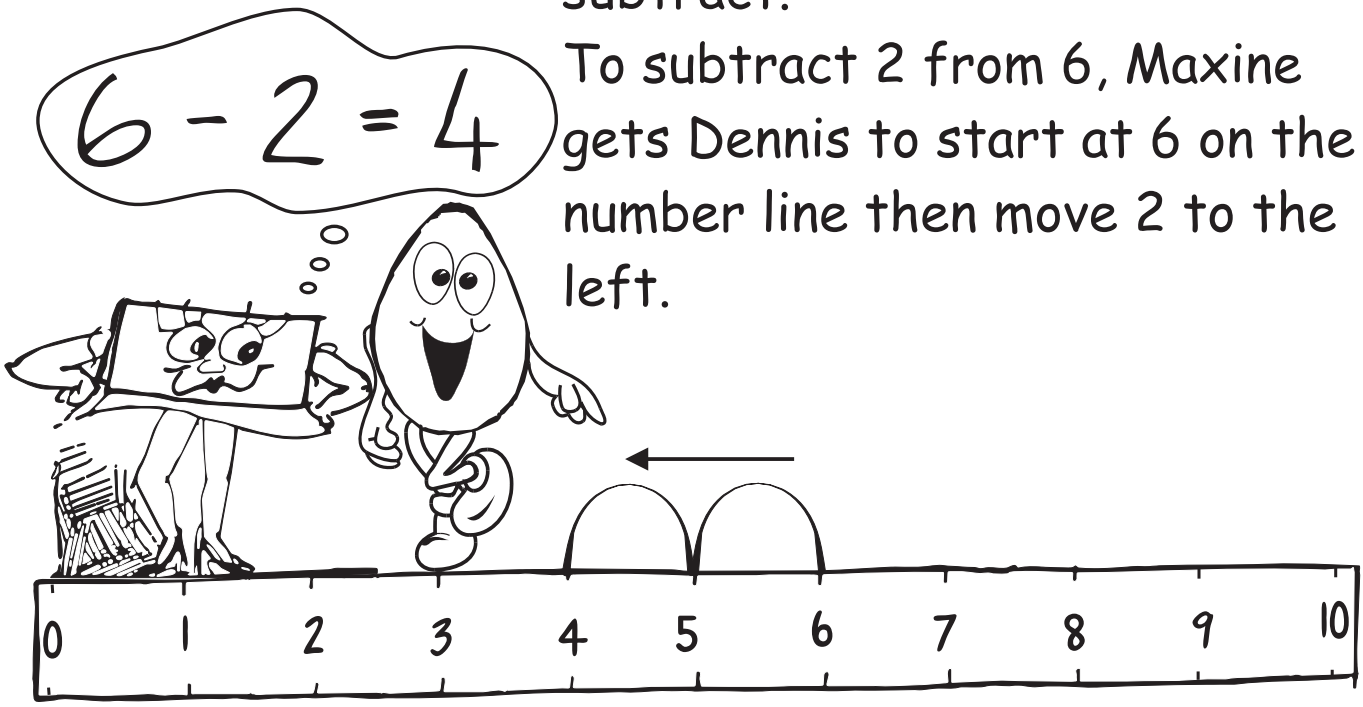




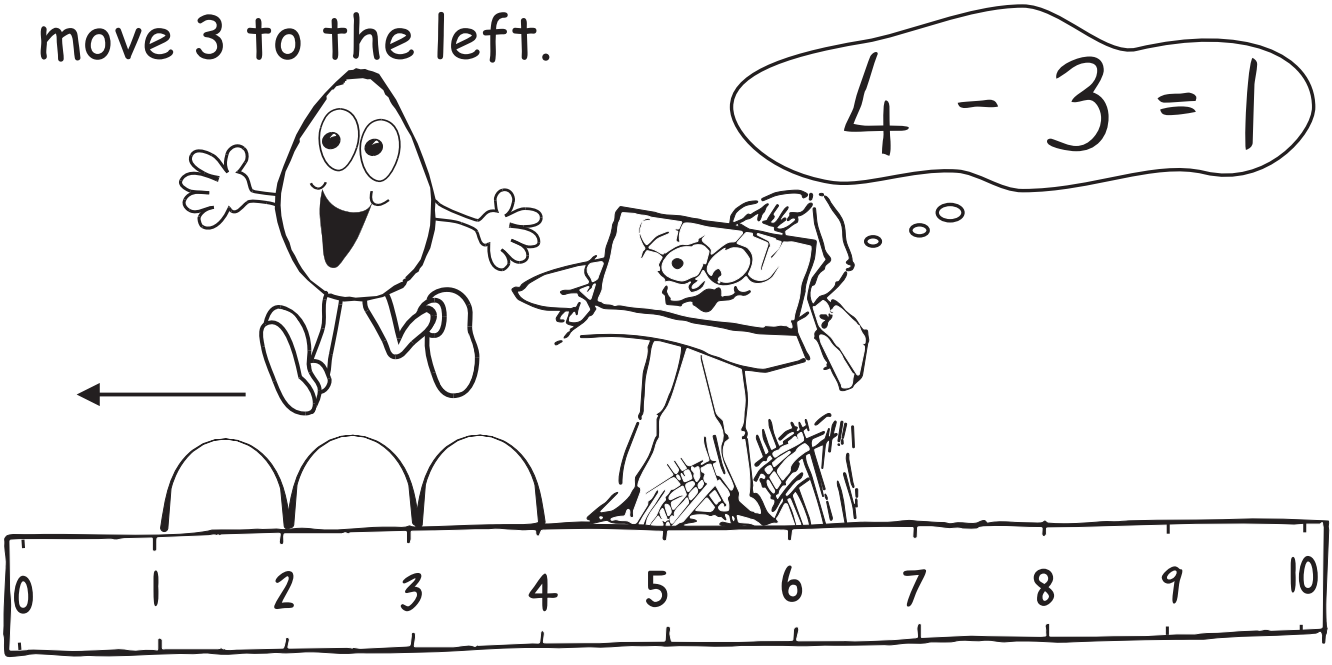
Subtraction with Dennis Difference

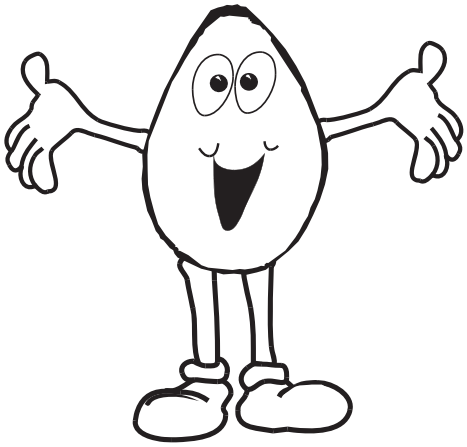
Maxine Minus is showing Dennis Difference how to subtract.

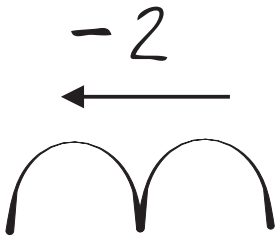
To subtract 2 from 6, Maxine gets Dennis to start at 6 on the number line then move 2 to the left.



To subtract 3 from 4, Maxine gets Dennis to start at 4 on the number line then move 3 to the left.







9 - 2 =

6 - 2 =

4 - 2 =

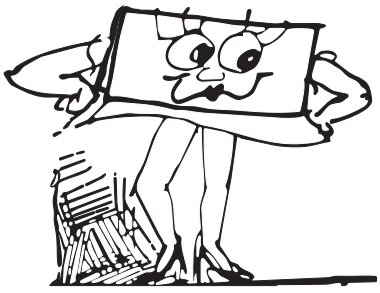
8 - 2 =

5 - 2 =

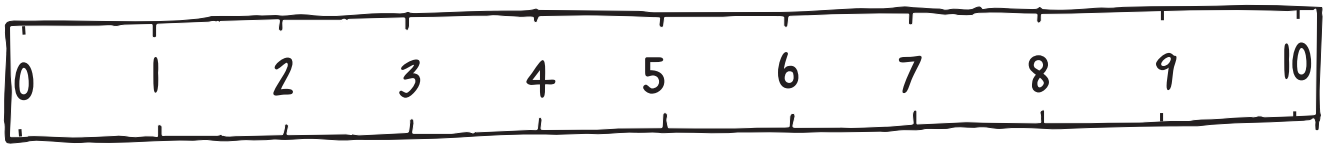
3 - 2 =

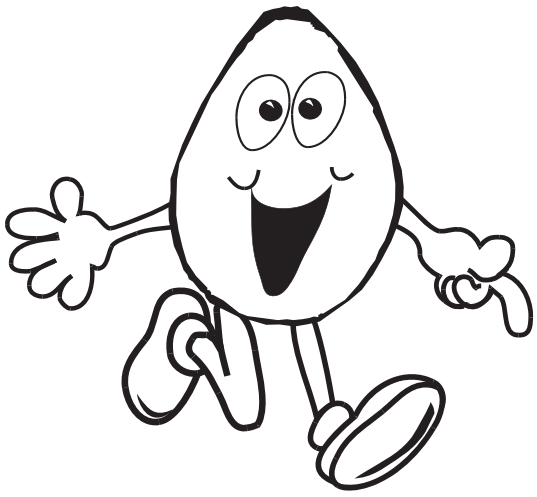
10 - 2 =

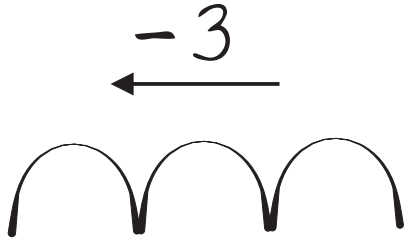
7 - 2 =



Use Maxine's number line to help you with these subtraction sums.







Let's help Dennis with these minus 3 subtractions.

6 - 3 =

5 - 3 =

4 - 3 =

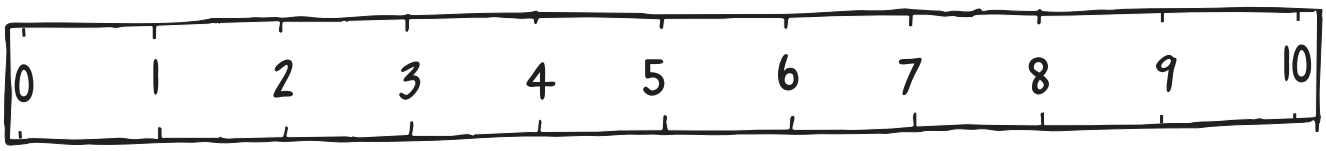
3 - 3 =

8 - 3 =

9 - 3 =

7 - 3 =

10 - 3 =



8 - 4 =

5 - 4 =

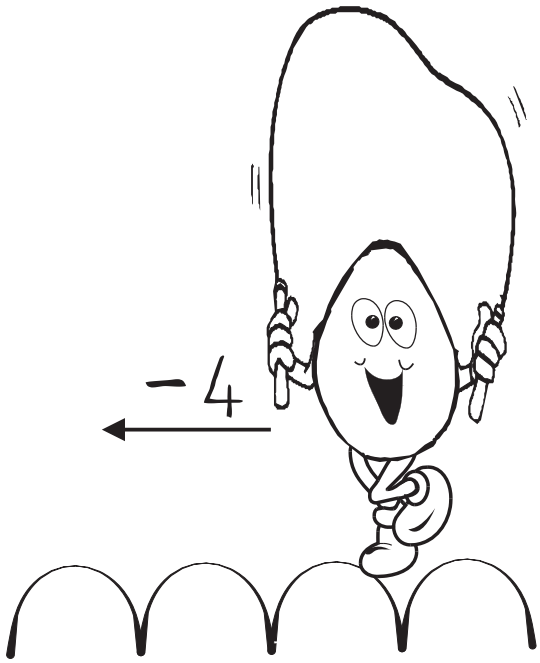
9 - 4 =

6 - 4 =

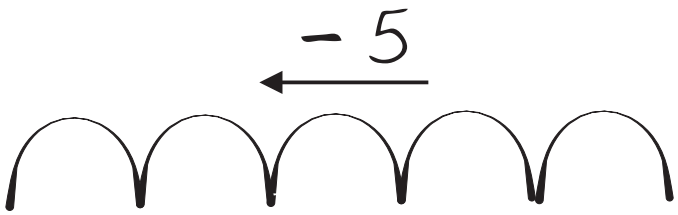
10 - 4 =

7 - 4 =

4 - 4 =



Dennis skips through some more subtraction.



5 - 5 =

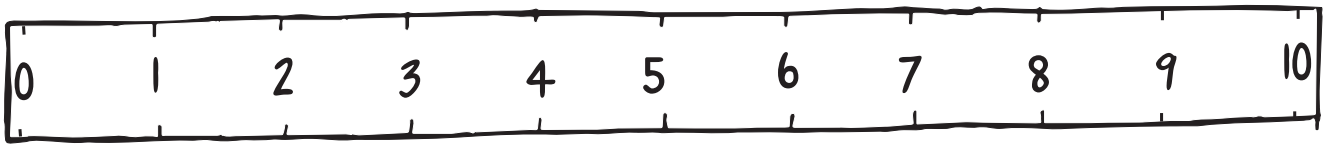
6 - 5 =

9 - 5 =

8 - 5 =

10 - 5 =

7 - 5 =



To help calculate these next subtractions, Maxine has drawn Dennis a number line up to 20.

5 - 2 =

8 - 1 =

6 - 4 =

9 - 5 =

3 - 2 =

7 - 3 =

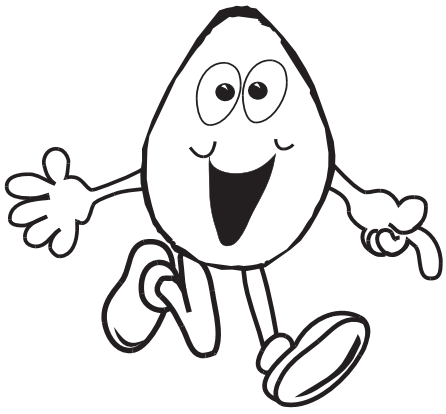
12 - 2 =

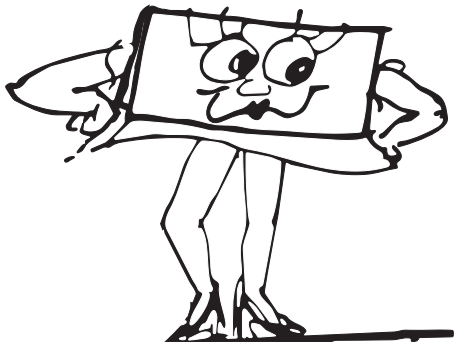
11 - 4 =

15 - 1 =

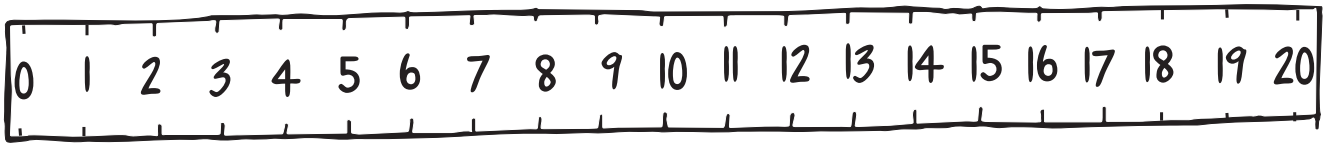
13 - 2 =

17 - 3 =





← subtraction



8 - 2 =

12 - 4 =

10 - 3 =

6 - 3 =

11 - 1 =

10 - 4 =

9 - 4 =

11 - 5 =

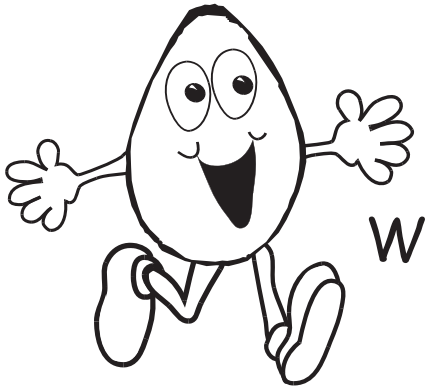
16 - 2 =

17 - 3 =

7 - 3 =

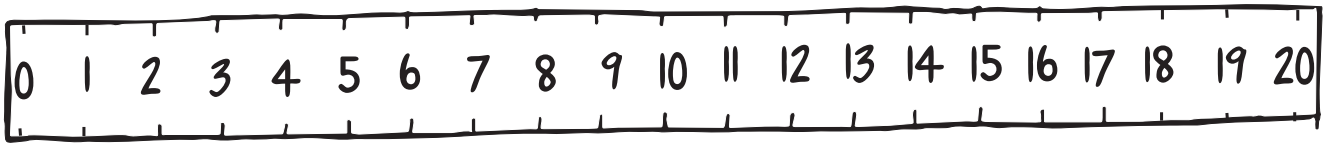
14 - 5 =

13 - 2 =

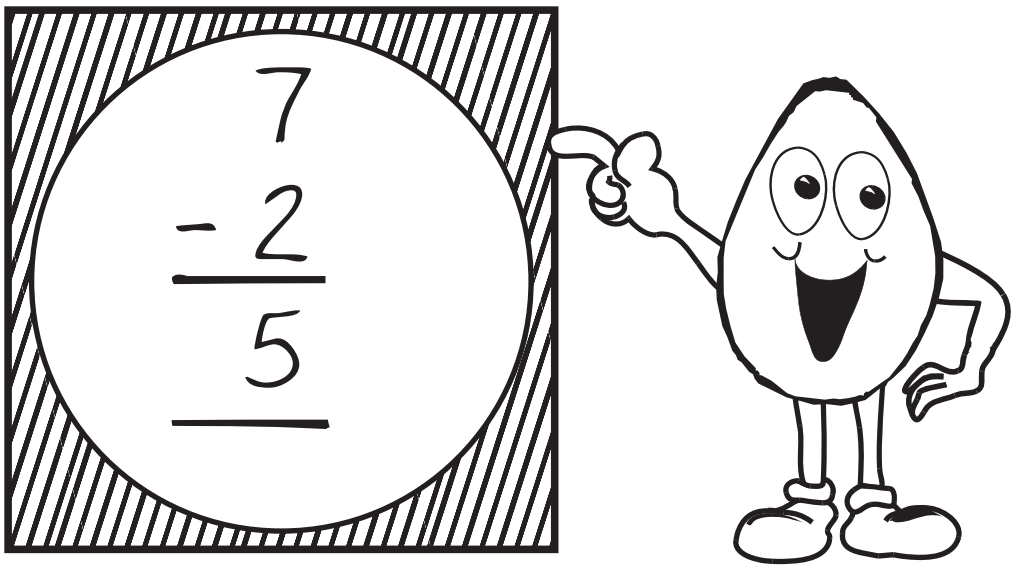


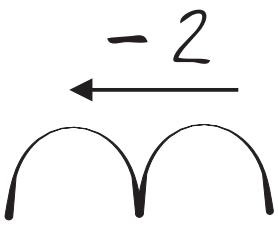
Wow! I just love subtraction.

← subtraction

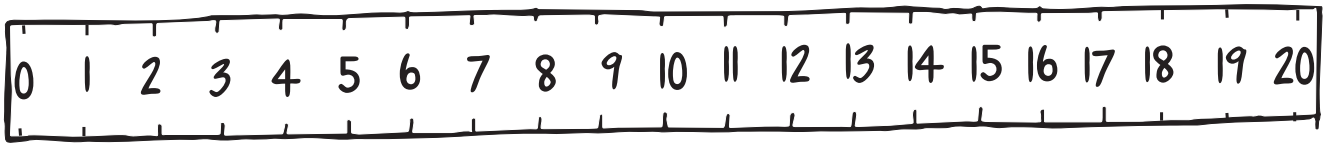


Sometimes subtractions are written like this.

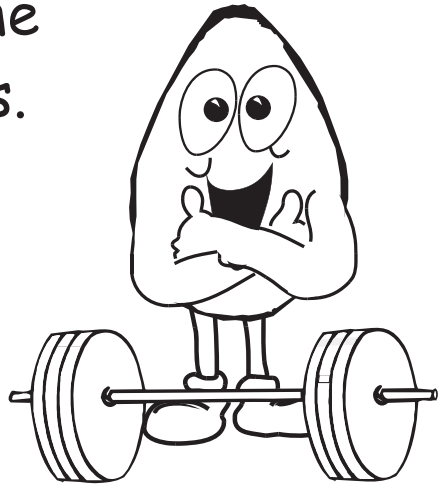


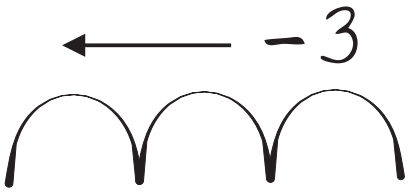


6	9	13	18
-2	-2	-2	-2
___	___	___	___

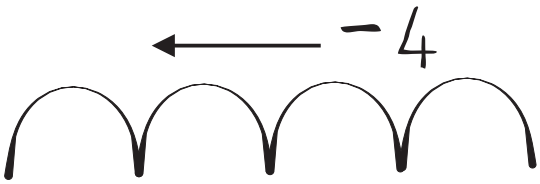


Dennis works out with some more weighty subtractions.

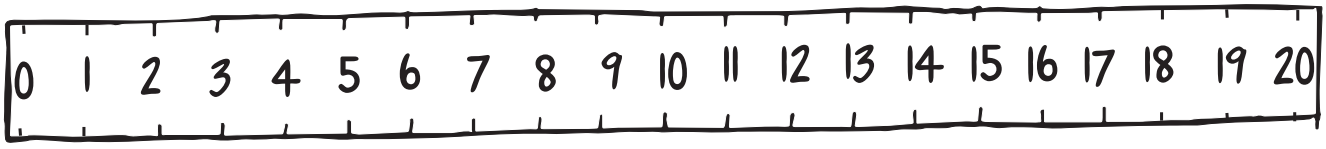


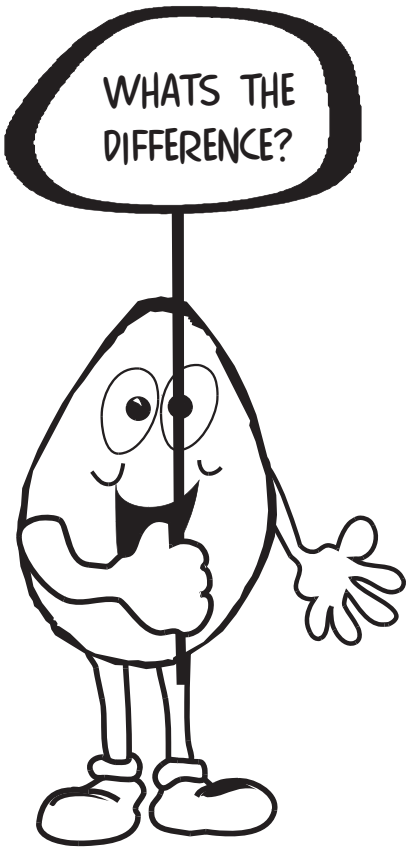


5	9	15	19
-3	-3	-3	-3
___	___	___	___



4	10	13	16
-4	-4	-4	-4
___	___	___	___





$$\begin{array}{r} 9 \\ -\,1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -\,2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -\,3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -\,2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ -\,3 \\ \hline \\ \hline \end{array}$$

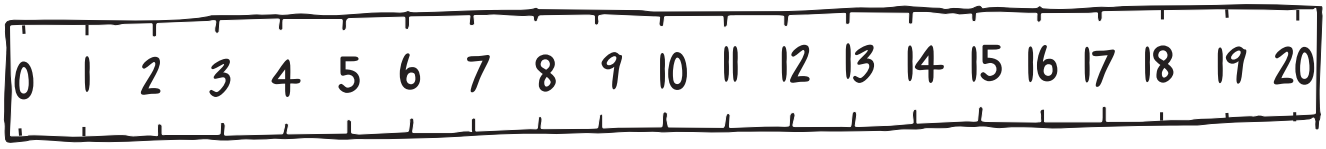
$$\begin{array}{r} 18 \\ -\,1 \\ \hline \\ \hline \end{array}$$

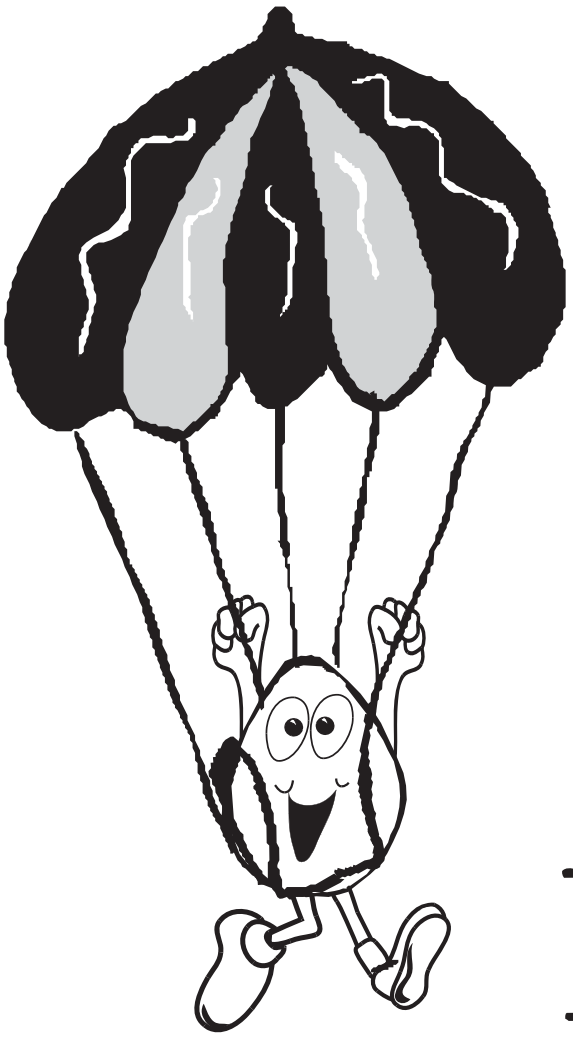
$$\begin{array}{r} 15 \\ -\,4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ -\,3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -\,5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -\,2 \\ \hline \\ \hline \end{array}$$





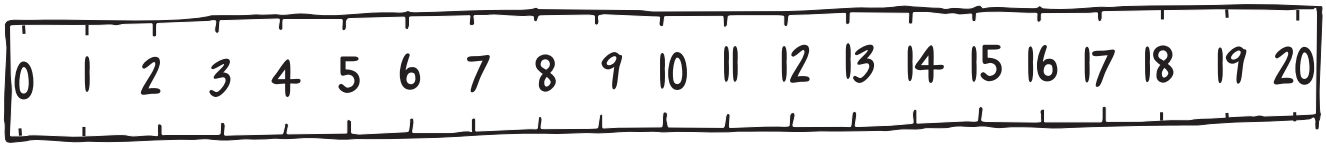
$$\begin{array}{r} 8 \\ -\,2 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -\,4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ -\,1 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 17 \\ -\,2 \\ \hline \\ \hline \end{array}$$

Dennis drops in with some more exciting subtraction.

$18 - 3 =$ $\qquad$ $13 - 4 =$

$15 - 2 =$ $\qquad$ $10 - 5 =$



9 - 5 =

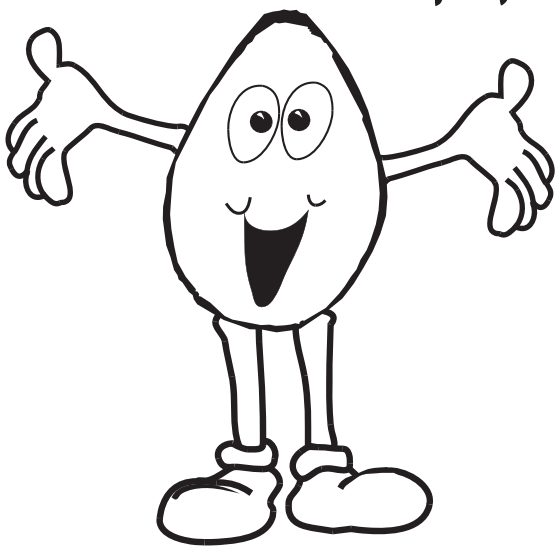
8 - 2 =

16 - 3 =

14 - 4 =

12 - 5 =

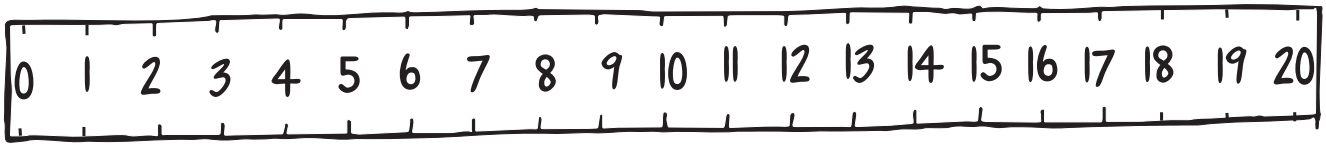
19 - 1 =

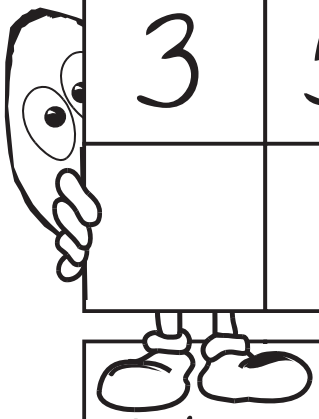


Dennis is surrounded by super subtraction.

$$\begin{array}{r} 12 \\ -\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ -\ 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ -\ 2 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 13 \\ -\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -\ 5 \\ \hline \\ \hline \end{array}$$

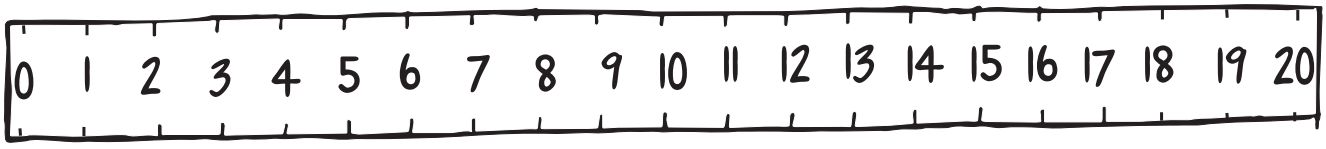




Subtract 2 from each number.					- 2
3	5	8	12	14	17

Subtract 3 from each number.					- 3
6	8	10	11	13	16

Subtract 4 from each number.					- 4
7	9	11	13	14	17



$8 - 3 =$

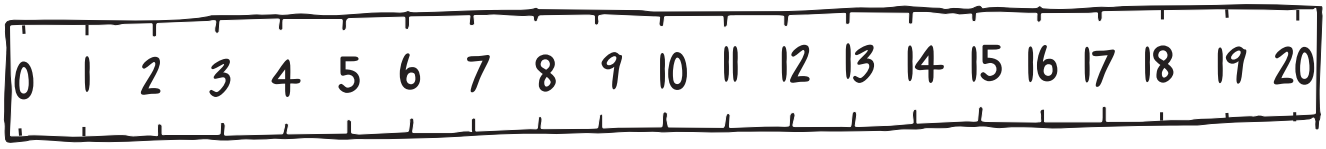
$10 - 4 =$

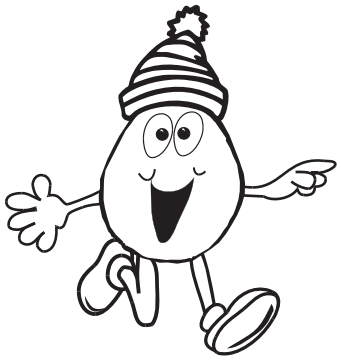
$16 - 2 =$

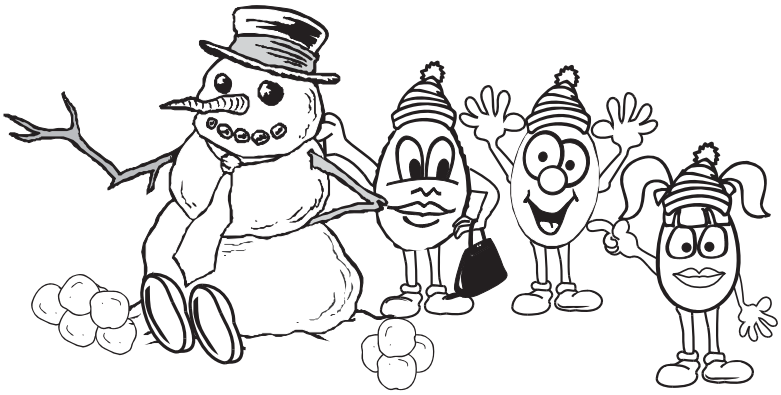
Let's help Dennis as he dives into some more subtraction.

$$\begin{array}{r} 19 \\ -\ 2 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 13 \\ -\ 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 15 \\ -\ 1 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 18 \\ -\ 6 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 14 \\ -\ 5 \\ \hline \\ \hline \end{array}$$







Oh boy! Dennis has done so well with his subtraction, that his friends have built him a snow man. Let's now help him ski through these 8 subtraction sums.

12 - 3 =

13 - 2 =

14 - 5 =

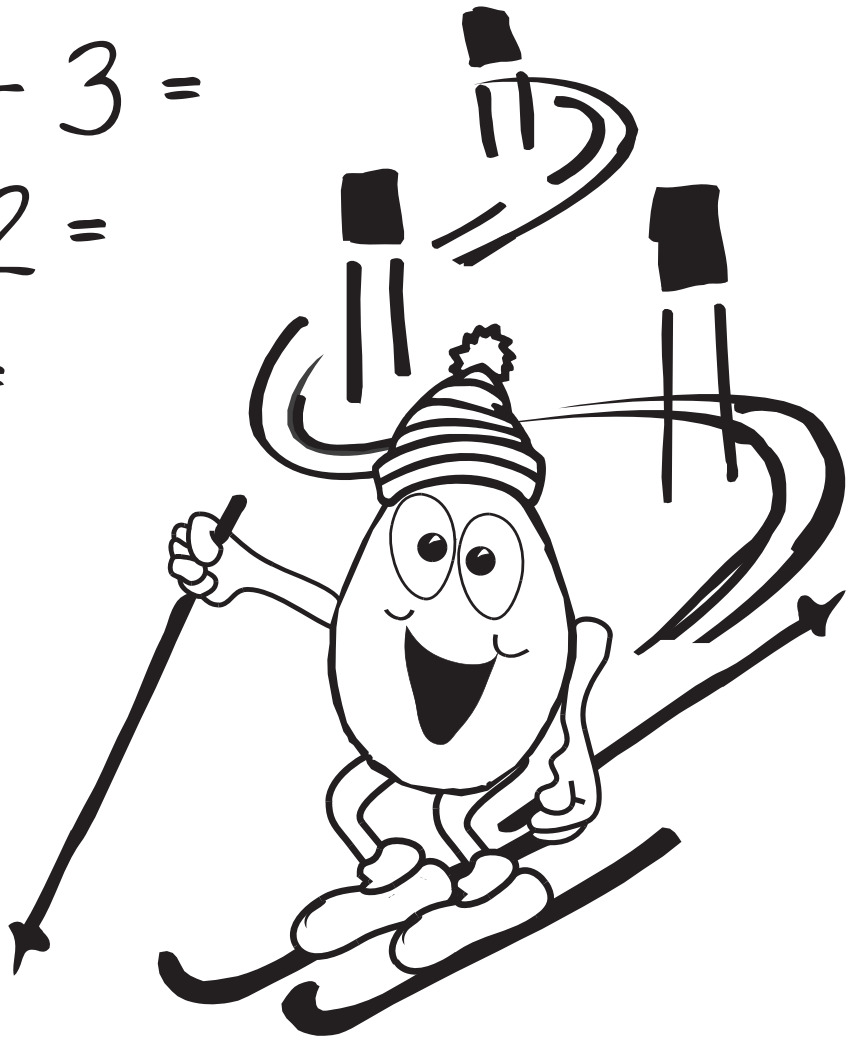
15 - 4 =

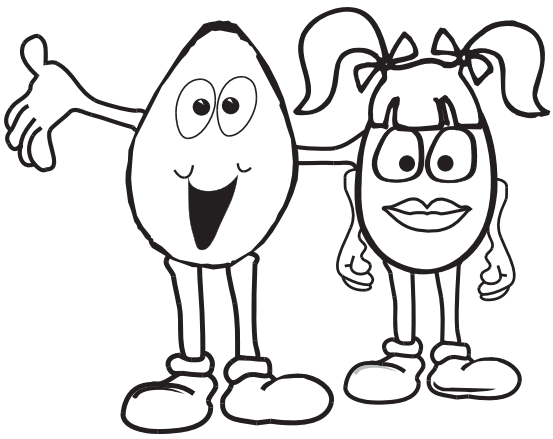
16 - 1 =

17 - 5 =

18 - 2 =

19 - 3 =





Dennis and Alicia have got together to bring you these addition and subtraction sums.

$$\begin{array}{r} 13 \\ +\ 2 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ +\ 3 \\ \hline \\ \hline \end{array}$$

$$4 + 3 =$$

$$2 + 5 =$$

$$8 + 4 =$$

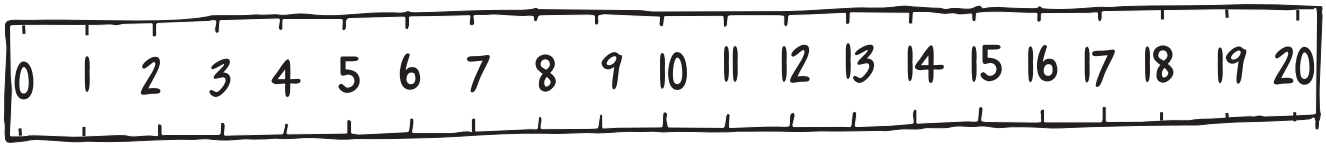
$$8 - 3 =$$

$$9 - 5 =$$

$$17 - 2 =$$

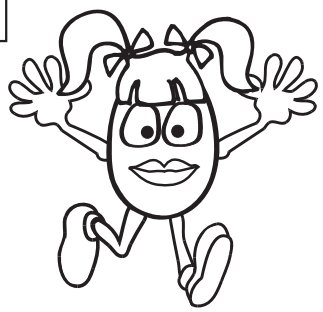
$$19 - 4 =$$

$$\begin{array}{r} 12 \\ -\ 4 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 14 \\ -\ 3 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 18 \\ -\ 5 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 17 \\ -\ 2 \\ \hline \\ \hline \end{array}$$

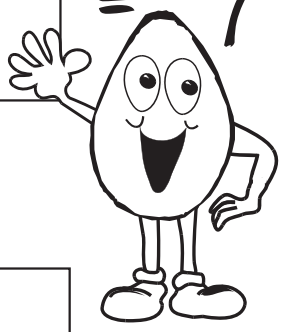


Dennis and Alicia hope you had a lot of fun doing their addition and subtraction sums!

$\square + 4 = 7$



$5 + \square = 7$

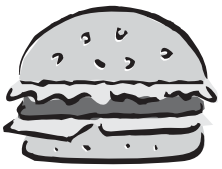


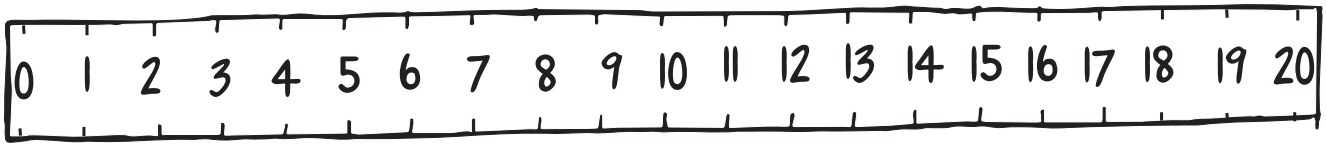
$8 - \square = 3$

$\square - 3 = 8$

$15 + 4 = \square$

Dennis and Alicia love subtraction and addition. But they love takeaways even more.





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