

Mighty Math, Beginner Mathematician Book 4, Introducing Multiplication and Division Author, Kim Freeman
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## HOW CAN YOU HELP YOUR CHILD IN MATHEMATICS?

Every child wants to play in the afternoon and get rid of the cares of the school day. However if a parent provides a place and a time for learning or for going over homework, they will be surprised to find that their child quickly adapts and will actually look forward each day to the experience.

## HOW CAN I MOTIVATE MY CHILD?

Communication is important. By becoming enthusiastic and involved, you are sending your child a positive message about learning. For children it is more fun to do any activity when parents or older sisters and brothers are keen to take part.

## HOW CAN I MAKE THE BEST USE OF THIS BOOK?

Book 4 at this level teaches the arithmetic operations of multiplication (times) and division and introduces fractions.

- 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 putting a number of objects into groups e.g. 10 pegs can be put into 5 groups of 2 or 2 groups of 5 . Multiplication results in a bigger number, while division results in a smaller number. Explain how fractions are parts of a whole and how they are written.


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

 All children learn at different rates. The important thing is to remain positive and praise what has been done right. Use other examples and talk about what has gone wrong. Rub out their answers then let them try that page again. Practice and repetition will lead to increased confidence in mathematics.
## HOW LONG SHOULD MY CHILD SPEND ON MATHEMATICS?

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 is setting a pattern for later years.

Most children will need to be encouraged to start an activity, however do not force them. Help them start by reading through and explaining any instructions. Reward their efforts with more encouragement. 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.

## MulFiplication ${ }_{\text {wthes peact }}$

B.J. and his friends have all got together. Count the number of feet in each group.

B.J. has


Together, B.J. and Alicia have

feet.

Together, Dennis, B.J. and Alicia have

feet.

Together, Dennis, B.J., Alicia and Dana have

$\square$ feet.

How many hands are there?

(i) Together, Dennis, B.J., and Alicia have

hands.

$$
3 \times 2=
$$

Together, Dennis, B.J.,
Alicia and Dana have


How many hands do 5 people have?

Fill in the missing spaces.



Write in the missing products.
$1 \times 2=6 \times 2=$
$2 \times 2=$
$7 \times 2=$
$3 \times 2=$
$8 \times 2=$
$4 \times 2=$
$9 \times 2=$
$5 \times 2=$
$10 \times 2=$

$\square$


How many buttons on 3 shirts?


How many buttons on 4 shirts?
 will look good on B.J. with his cool cap and shades.


How many buttons do 5 shirts have?


Let's help B.J. count bananas.


2 bunches have $\square$ bananas. $2 \times 3=$
3 bunches have $\square$ bananas. $3 \times 3=$
4 bunches have $\square$ bananas. $4 \times 3=$
5 bunches have $\square$ bananas. $5 \times 3=$

RIllin ine mising spaces. "飛鳥 $3 \times 2=$ $\qquad$
(a)

$$
3 \times 3=
$$

$\square$


$$
3 \times \bigcirc=
$$

$\square$


$$
3 \times \bigcirc=
$$

$\square$

B.J. jumps along the number line in 3's. In the boxes below, write all the numbers that he lands on.

$\square$
$\square$
$\square$
$\square$
$\square$
$\square$
$\square$
Write in the missing products.

$$
\begin{aligned}
& 1 \times 3= \\
& 2 \times 3= \\
& 3 \times 3= \\
& 4 \times 3= \\
& 5 \times 3=
\end{aligned}
$$

$$
6 \times 3=
$$

$$
7 \times 3=
$$



Now that B.J. knows his times 3's he's off rollerblading.


How many legs on 2 chairs?


How many legs on 4 chairs?

B.J. reckons that chairs are made for sitting on, not multiplying with.

How many legs on 5 chairs?


Fill in the missing spaces.

B.J. turns the light on some more Mighty Multiplication.
1 vase has flowers. $1 \times 4=$
2 vases have $\square$ flowers. $2 \times 4=$
3 vases have flowers. $3 \times 4=$
4 vases have $\square$ flowers. $4 \times 4=$
5 vases have $\square$ flowers. $5 \times 4=$


B.J. jumps along the number line in 4's. In the boxes below, write all the numbers that he lands on.


Write in the missing products.
$1 \times 4=$
$2 \times 4=$
$3 \times 4=$
$4 \times 4=$
$5 \times 4=$


Let's help B.J. as he bats some more multiplication.

Multiplication can be written two ways. Write in the missing products.

$3 \times 2=$

$2 \times 3=$


$$
\begin{aligned}
& 4 \times 2= \\
& 2 \times 4=
\end{aligned}
$$

$$
\begin{aligned}
& 4 \times 5= \\
& 5 \times 4= \\
& \text { You don't have to know magic } \\
& \text { to learn multiplication. }
\end{aligned}
$$



Fill in the
multiplication square.

$$
4 \times 4=16
$$

Draw a line to match the same answer.

$$
\begin{array}{ll}
2 \times 2= & 2 \times 8= \\
5 \times 4= & 4 \times 1= \\
4 \times 4= & 3 \times 4=
\end{array}
$$

$$
4 \times 3=
$$

Hey B.J. - knowing multiplication makes you one cool dude.

## Division man manex

There are 6 apples. Let's give
Dana \& Alicia the same number of apples each.

All the apples



Danás apples Aliciás apples
为


6 apples divided by $2=3$ apples each.

$$
6 \div 2=3
$$

8 ice-creams divided by $4=2$ ice-creams each.

$$
8 \div 4=2
$$



How many ice creams do we get?


Fill in the missing spaces.


$$
2 \div 2=
$$



$$
4 \div 2=
$$


Here comes Dana Divisor. She is driving by to check that you know your division.

$6 \div 2=3$
$8 \div 2=$

000000 000000

$$
10 \div 2=
$$

$$
12 \div 2=
$$

$$
\begin{array}{llll}
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{array}
$$

$$
14 \div 2=
$$

$$
16 \div 2=
$$

Divide each number by 2 .
Divide each number by 2.


Can you remember how to do these divisions?

$$
\begin{array}{ll}
4 \div 2= & 8 \div 2= \\
6 \div 2= & 2 \div 2=
\end{array}
$$

$$
10 \div 2=
$$

Dana has just found two presents and doesn't have to share them with anybody else!


Fill in the missing spaces.


$$
6 \div 3=
$$



$$
3 \div 3=
$$



$$
9 \div 3=
$$




Divide each number by 3 .


Can you remember how to do these divisions?

$$
\begin{aligned}
& 12 \div 3= \\
& 6 \div 3= \\
& 15 \div 3= \\
& \text { These fish have no problems } \\
& \text { with this page of division. } \\
& \text { They have learnt by swimming } \\
& \text { in schools of three. }
\end{aligned}
$$

Fill in the missing spaces.




## Divide each number by 4.



Can you remember how to do these divisions？

$$
\begin{aligned}
& 12 \div 4= \\
& 8 \div 4= \\
& 4 \div 4= \\
& 16 \div 4= \\
& 20 \div 4= \\
& \text { 咞 完 耍 } \\
& \text { ㅇi. } 0
\end{aligned}
$$

요 앙
Dana has cooked up these而 0 而 （iii）iii）

Put the correct sign into the box.

$$
\div \text { or } \times \text { ? }
$$


$3 \square 2=6$

$$
4 \square 2=2
$$

$8 \square 2=4$



Color in one third of the circle and one third of the rectangle.


Color in one third of the ducks.


Circle one third of the spiders.


Color in one quarter of the circle and one quarter of the rectangle.


Color in one quarter of the fish.


Find half of each number.


Find one third of each number.


## What fraction is shaded?



Half $\frac{1}{2}$


Dana is cleaning up the bits and pieces left from all those fractions.

## Mibriy <br> 

BEGINNER MATHEMATICIAN for 4-6 year olds
Book 1: Introducing Numbers
Book 1 emphasizes the counting sequence 1 to 20. After completing this book children will be able to recognize and write all of these numbers and use them for counting.

## Book 2: Introducing Arithmetic

Book 2 introduces the basic mathematical operations of addition, subtraction and multiplication. After completing this book, students will recognize the signs ( + , - and $\times$ ) carry out these operations and understand what they mean.

## Book 3: Introducing Addition and Subtraction

Book 3 focuses on the arithmetic operations of addition and subtraction. After completing this book students will be able to use a number line to carry out these operations and will gain increased confidence in dealing with numbers.

## Book 4: Introducing Multiplication and Division

Book 4 focuses on the arithmetic operations of multiplication and division and introduces fractions. After completing this book, students will understand what these concepts mean and how they are used. All pages are designed to encourage a continued and creative interest in Math.

## Book 5: Introducing Mathematics

This is the complete beginners Math book with 96 powerful learning pages on writing numbers, counting, introduction to arithmetic, addition, subtraction, multiplication and division. By the end of this book children will have a thorough grounding in beginner Math.

The MIGHTY MATH series is a structured, easy-to-follow series of fun activities designed to stimulate and challenge.

Beginner Mathematician (for 4-6 year olds), look for the RED books.
Developing Mathematician for (5-7 year olds), look for the YELLOW books.
Advancing Mathematician for (6-8 year olds), look for the BLUE books.
Maturing Mathematician for (7-9 year olds), look for the GREEN books.

## Are you looking to give your child

a powerful head start at school?

Introduce your child to mathematics with This is a structured, easy-to-follow series of fun activities designed to stimulate and challenge the beginner mathematician.

Choose and observe a marked improvement in your child's mathematical ability. Success and confidence in math will lead to an increase in motivation and an enjoyment of learning.

Reinforce the work that your child is covering at school with Effective study habits begin at home, complement school work and have an enormous impact on future academic achievement.

Book 4 focuses on the arithmetic operations of multiplication and division and introduces fractions. After completing this book, students will understand what these concepts mean and how they are used. All pages are designed to encourage a continued and creative interest in Math.

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