Why Multiplication and Division?

Multiplication and division are relatively new operations for third graders. Children need many experiences grouping and separating objects to understand the meaning of these two operations. They also need to see and use number facts (such as 3 × 5 and 12 ÷ 4) in a variety of contexts, such as in describing sets of objects or pictures, or solving word problems, in order to achieve mastery. Research has shown that repetition is essential for the brain to learn and recall information. This book provides repeated practice with fun, motivating activities that will help your child develop the skills and confidence that lead to success!

Upon your child's completion of each activity, use the provided incentive chart and stickers to track progress and celebrate your child's success.

SKILLS

- Recognition of multiplication and division models
- Multiplication facts
- Division facts
- Fact families
- Missing factors
- Solving word problems
- Multi-digit multiplication (up to 3-digit × 1-digit)
- Multi-digit division with 1-digit divisors
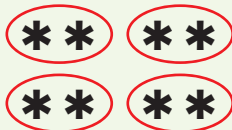
HOW YOU CAN HELP SUPPORT LEARNING

- Use items in the home to model multiplication or division. For example, look in a recipe book together and ask something like, "If this cake recipe uses 3 eggs, how many eggs will I need for 4 cakes?"
- Encourage your child to memorize four facts at a time. Have your child write the facts on index cards and keep the cards in a handy place. Then every so often, ask one of the facts (such as "What is 4 × 5?"). If your child can respond quickly and easily, you know that he or she has memorized the fact. Let your child put stickers on the facts that have been mastered, and keep the card in a special box or bag.

Starry Pictures

Draw and circle stars to show the groups and how many are in each one. Then write the number sentences.

4 groups of 2 ✱✱ ✱✱ ✱✱ ✱✱ show $4 \times 2 = 8$

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1 2 groups of 3

_____ × _____ = _____

2 3 groups of 3

_____ × _____ = _____

3 3 groups of 2

_____ × _____ = _____

4 2 groups of 5
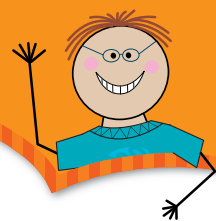
_____ × _____ = _____

5 4 groups of 3

_____ × _____ = _____

6 3 groups of 5

_____ × _____ = _____

Hop to It!

Multiply and write the answer for each problem.

$$\begin{array}{r} 0 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ \times\, 3 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times\, 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times\, 7 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times\, 6 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ \times\, 2 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times\, 3 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ \times\, 5 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times\, 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times\, 1 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times\, 4 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ \times\, 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times\, 6 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times\, 7 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ \times\, 9 \\ \hline \end{array}$$
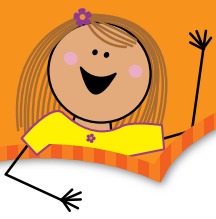
$$\begin{array}{r} 0 \\ \times\, 8 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times\, 9 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ \times\, 1 \\ \hline \end{array}$$

Busy Bees

Multiply and write the answer for each problem.

$$\begin{array}{r} 2 \\ \times\, 3 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 1 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times\, 0 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 4 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ \times\, 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times\, 7 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 9 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times\, 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ \times\, 2 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ \times\, 2 \\ \hline \end{array}$$

An Icy Path

Divide and write the answer for each problem.

$9 \div 3 =$ ___

$3 \div 3 =$ ___

$6 \div 3 =$ ___

$18 \div 3 =$ ___

$21 \div 3 =$ ___

$15 \div 3 =$ ___

$12 \div 3 =$ ___

$27 \div 3 =$ ___

$24 \div 3 =$ ___

$3 \overline{)6}$ $3 \overline{)12}$ $3 \overline{)9}$ $3 \overline{)24}$
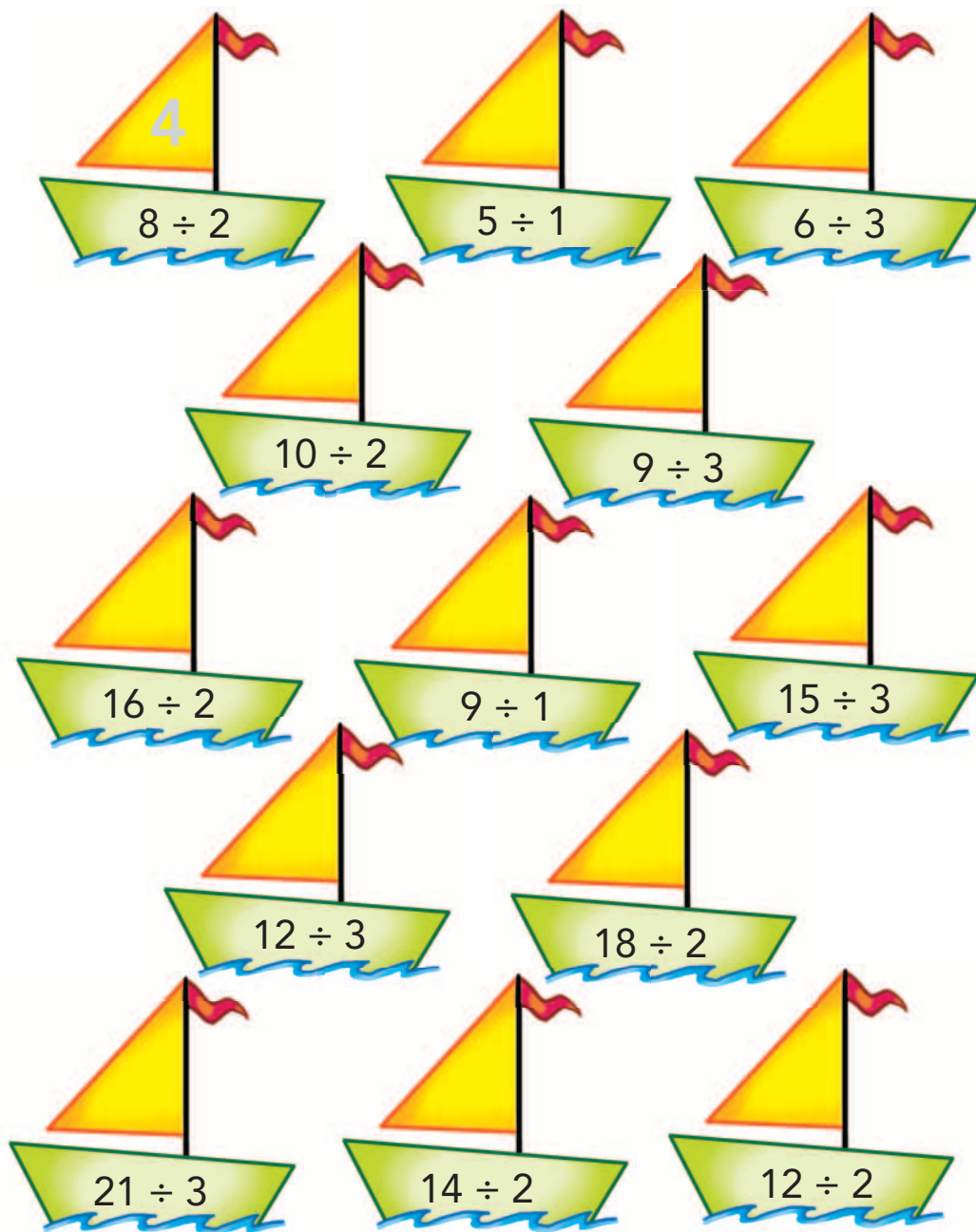
$3 \overline{)18}$ $3 \overline{)15}$ $3 \overline{)27}$ $3 \overline{)21}$

Sail Away!

Divide. Write the quotients (answers) on the sails.

4

8 ÷ 2

5 ÷ 1

6 ÷ 3

10 ÷ 2

9 ÷ 3

16 ÷ 2

9 ÷ 1

15 ÷ 3

12 ÷ 3

18 ÷ 2

21 ÷ 3

14 ÷ 2

12 ÷ 2

A Space Trip

Divide and write the quotient (answer) for each problem.

$4 \div 4 =$ ___

$12 \div 4 =$ ___

$8 \div 4 =$ ___

$20 \div 4 =$ ___

$24 \div 4 =$ ___

$16 \div 4 =$ ___

$36 \div 4 =$ ___

$32 \div 4 =$ ___

$28 \div 4 =$ ___

$4\overline{)20}$

$4\overline{)12}$

$4\overline{)28}$

$4\overline{)36}$

$4\overline{)16}$

$4\overline{)32}$

$4\overline{)24}$

A Friendly Worm

Divide and write the quotient (answer) for each problem.

10 ÷ 5 = ___   15 ÷ 5 = ___   5 ÷ 5 = ___

25 ÷ 5 = ___   20 ÷ 5 = ___   30 ÷ 5 = ___

45 ÷ 5 = ___   40 ÷ 5 = ___   35 ÷ 5 = ___

$5\overline{)15}$ $5\overline{)20}$ $5\overline{)35}$ $5\overline{)10}$

$5\overline{)40}$ $5\overline{)45}$ $5\overline{)30}$ $5\overline{)25}$