

Table of Contents

Introduction to Get Set for Math 4

How to Answer Test Questions 5

UNIT 1: Operations and Algebraic Thinking 9

3.OA.1, 4, 7 **Lesson 1** Multiplication 10

3.OA.2, 4, 7 **Lesson 2** Division 14

3.OA.1, 2, 6 **Lesson 3** Connecting Multiplication and Division 18

3.OA.5, 6 **Lesson 4** Properties of Operations 23

3.OA.3 **Lesson 5** Solving One-Step Word Problems 29

3.OA.8 **Lesson 6** Solving Two-Step Word Problems 33

3.OA.9 **Lesson 7** Arithmetic Patterns 38

UNIT 2: Number and Operations in Base Ten 43

3.NBT.1 **Lesson 8** Place Value and Rounding 44

3.NBT.2 **Lesson 9** Addition 49

3.NBT.2 **Lesson 10** Subtraction 54

3.NBT.3 **Lesson 11** Multiples of 10 58

UNIT 3: Number and Operations—Fractions 63

3.NF.1; 3.G.2 **Lesson 12** Fractions 64

3.NF.2 **Lesson 13** Fractions on a Number Line 69

3.NF.3.a, b, c **Lesson 14** Equivalent Fractions 74

3.NF.3.d **Lesson 15** Comparing Fractions 79

UNIT 4: Measurement and Data 85

3.MD.1 **Lesson 16** Time 86

3.MD.2 **Lesson 17** Capacity 92

3.MD.2 **Lesson 18** Mass 96

3.MD.3 **Lesson 19** Picture Graphs 100

3.MD.3 **Lesson 20** Bar Graphs 106

3.MD.4 **Lesson 21** Line Plots 111

3.MD.5, 6, 7.a-c **Lesson 22** Area of Rectangles 116

3.MD.5, 6, 7.d **Lesson 23** Area of Composite Figures 121

3.MD.8 **Lesson 24** Perimeter 127

UNIT 5: Geometry 131

3.G.1 **Lesson 25** Plane Figures 132

Flash Cards 137

Guided Practice

Tammy wrote the number sentence $4 \times 2 = 8$. She drew a matching array shown below.



Use the commutative property to write a number sentence with the same product. Draw an array to match the new number sentence.

- 1 What does the commutative property say?

How do you change the factors in the number sentence?

- 2 How can you change the array to show the new multiplication sentence?

You will still have 8 counters with an equal number in each row.

Write the new number sentence. Draw the new array.



Independent Practice

Solve the following problems.

- 1 Samuel and Orlando are working on the problem shown.

$$5 \times (3 \times 4) = \square$$

Orlando rewrites the problem as $(5 \times 4) \times 3 = \square$. Samuel rewrites the problem as $5 \times (4 \times 3) = \square$. Will either student still get the problem correct? Explain. Show your work for all three problems and solve.

- 2 Place a check mark in the box next to the number sentences that are true. Mark all that apply.

$5 \times 1 = 5$

$4 \div 1 = 1$

$6 \times 4 = 4 \times 6$

$2 \times 5 = 2 + 5$

$27 \times 5 = (20 \times 5) + (7 \times 5)$

$22 \times 3 = (12 \times 2) + (10 \times 1)$



Independent Practice

3 Billy earns \$22 each day for 5 days. Which equation will show how much Billy earns for the 5 days? Mark all that apply.

A $(22 \times 5) + (22 \div 5)$

B $(20 \times 2) + (2 + 3)$

C $(20 \times 5) + (2 \times 5)$

D $(10 \times 5) + (12 \times 5)$

E $(20 \times 5) \times (2 \times 5)$

F $(17 + 5) \times (5 + 5)$

4 Look at the multiplication problem below.

$$6 \times (3 \times 4)$$

Choose the ways to rewrite the problem and still get the correct answer. Mark all that apply.

$6 \times (4 \times 3)$

$4 \times (3 \times 6)$

$6 + (3 \times 4)$

$4 \times (3 + 6)$

$4 + 6 + 3$

$4 \times 3 \times 6$



Independent Practice

- 5 Match the equation with its property by placing the letter in the correct column of the table. Not all choices will be used.

A $5 \div 1 = 5$

B $2 \times 2 = 1$

C $1 \times 5 = 5$

D $4 \times 2 = 2 \times 4$

E $6 \times 4 = 4 + 6$

F $(3 \times 1) \times 4 = 3 \times (1 \times 4)$

Identity Property	Commutative Property	Associative Property



Independent Practice

- 6 Rob writes the following two number sentences.

$$2 \times 4 = 8 \text{ and } 4 \times 2 = 8$$

Cindy writes the following two number sentences.

$$4 \div 2 = 2 \text{ and } 2 \div 4 = 2$$

Are both students correct? Explain.

Rob is [correct, incorrect] because _____

Cindy is [correct, incorrect] because _____

- 7 Cara is multiplying two numbers. She uses the distributive property to break a large number into two smaller numbers. The equation she has now is $(20 \times 7) + (7 \times 7)$. What was Cara's original equation?

- 8 A bag of coffee weighs 1 pound. Write a multiplication sentence that will show how many pounds 9 bags weigh.

_____ \times _____ = _____