Homework and Practice **

Name _____



Relate Addition and Multiplication

ALGEBRA

Draw a quick picture to show equal groups. Then write related addition and multiplication sentences.

1. 3 groups of 4

+ + =

2. 4 groups of 2

+ + + = =

Use the table for 3-4.

3. Kaymer buys 2 boxes of crayons. Write a multiplication sentence to find how many crayons Kaymer buys.

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4. Mya buys 4 boxes of pencils. Write a multiplication sentence to find how many pencils Mya buys.

Boxes of School Supplies

Box Number in Each

Crayons 6

Markers 4

Pencils 3

Problem Solving (R



5. Zach buys 4 boxes of pens. Each pack has 4 pens. Write a multiplication sentence to show how many pens Zach buys.

× ___ =

6. Ada has 3 vases. She puts 5 flowers in each vase. Write a multiplication sentence to show how many flowers Ada puts in the vases.

Lesson Check

- 7. Jada makes 3 trays of muffins. Each tray holds 6 muffins. Which equation shows how many muffins Jada makes?
 - \bigcirc 3 × 6 = 18
 - (B) 3+6=9
 - (C) $6 \times 3 = 9$
 - (D) $6 \times 3 = 12$
- 9. Midori puts 5 flowers in each of 3 vases. She says the number of flowers is equal to 5 + 5 + 5. Which is another way to find the number of flowers?
 - (A) 3 \times 3
 - (B) 3×5
 - (C) 5 + 5
 - ① 3+5
- 11. Multi-Step Mrs. Tomar buys
 2 packs of vanilla yogurt and 3 packs
 of strawberry yogurt. Each pack has
 4 yogurts. How many yogurts does
 Mrs. Tomar buy?
 - **(A)** 20
 - **B** 9
 - © 12
 - D 24

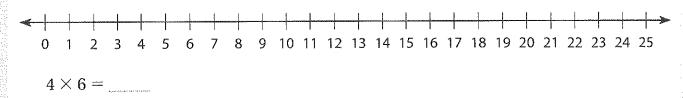
- 8. Robinson puts 5 books on 2 shelves. Which equation shows how many books Robinson puts on the shelves?
 - $\bigcirc 2 + 5 = 10$
 - (B) 5+2=7
 - (C) $5 \times 2 = 10$
 - (D) $2 \times 5 = 7$
- 10. Pete has 5 boxes. Each box has4 toy cars in it. Pete says the number of cars is equal to 4 + 4 + 4 + 4 + 4.Which is another way to find the number of cars?
 - $\bigcirc 5 + 4$
 - (B) 4×4
 - \bigcirc 5 × 5
 - (\widehat{D}) 5 × 4
- 12. Multi-Step Murray buys 3 packs of red peppers and 4 packs of green peppers. Each pack has 4 peppers. How many peppers does Murray buy?
 - A 16
 - (B) 12
 - © 28
 - (D) 48

Name __

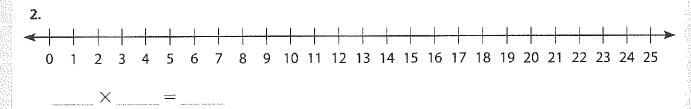
6.2 Skip Count on a Number Line

Draw jumps on the number line to show equal groups. Find the product.

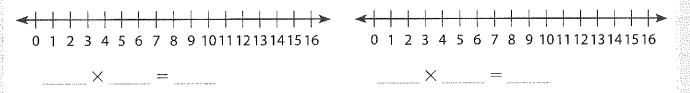
1. 4 groups of 6



Write the multiplication sentence the number line shows.



3. Write two multiplication sentences that have a product of 16. Draw jumps on the number line to show the multiplication.

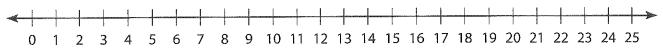


Problem Solving

- 4. Hannah, Steven, and Nicole each have 9 books. How many books do they have in all?
- 5. Kyle has 6 crayons in 3 boxes. If he adds another crayon to each box, how many crayons will Kyle have?

Lesson Check

6. In Mr. Gupta's classroom, there are 4 rows of desks. Each row has 6 desks. How many desks are in Mr. Gupta's classroom?

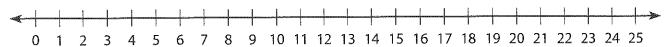


(A) 10

© 24

B 18

- **D** 21
- 7. Matt wants to make 5 puppets. He needs 3 buttons for each puppet. Which number sentence can Matt use to find the number of buttons he needs?

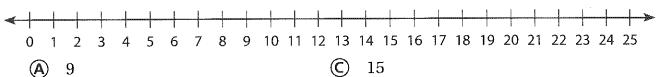


(A) 5 + 3 = 8

(c) $3 \times 3 = 9$

(B) $5 \times 5 = 25$

- ① $5 \times 3 = 15$
- **8.** Ichiro builds 3 birdhouses. He uses 6 pieces of wood for each birdhouse. How many pieces of wood does Ichiro use?



(B) 18

- (D) 24
- 9. Multi-Step A band marches in rows of 5. Each row has 6 people. There are 4 people who carry flags. How many people are in the marching band?
- many pictures does she have?

 (A) 24

(A) 15

B 15

10. Multi-Step Carla puts 8 pictures on each page of a photo album. She fills

3 pages. She has 5 pictures left. How

B 24

© 15

© 34

D 29

(D) 30

Homework and Practice

Name _____

6.3

PROBLEM SOLVING • Model Multiplication

1. Dale has 3 baskets. He puts 9 apples in each basket. How many apples does Dale have?

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2. Hans has 6 boxes of crayons. Each box has 5 crayons. How many crayons does Hans have?

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- 3. In art class, there are 7 tables with 4 students at each table. How many students are in art class?
- 4. In gym class there are 6 teams with 4 students on each team. How many students are in gym class?

Problem Solving



5. Nine students in Mr. Dobb's class work on an art project. Six students paint a picture. The rest make 3 puppets each. How many puppets are made?

What do you need to find? Write a number sentence to solve.

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6. Ten students in Mrs. Porth's class bring muffins to the bake sale. Six students bring bran muffins. The rest bring 6 blueberry muffins each. How many blueberry muffins do the students bring?

What do you need to find? Write a number sentence to solve.

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- 7. Ms. Cabrera has 4 rows of tomato plants in her garden. Each row has 7 plants. How many tomato plants does Ms. Cabrera have?
 - (A) 16
 - **B** 21
 - © 28
 - (D) 11
- 9. At the farm, there are 3 stables. There are 8 horses in each stable. How many horses are at the farm?
 - **(A)** 38
 - (B) 11
 - © 24
 - (D) 27
- 11. Multi-Step Alex has 2 bunches of flowers. There are 9 flowers in each bunch. Five of the flowers are daises and the rest are tulips. How many flowers are tulips?
 - (A) 18
 - **B** 16
 - **(C)** 45
 - **(D)** 13

- 8. Mr. Myers has 5 packs of markers. Each pack has 5 markers. How many markers does Mr. Myers have?
 - (A) 10
 - (B) 25
 - **©** 55
 - (D) 20
- 10. Alyssa has 4 boxes. In each box there are 8 shells. How many shells does Alyssa have?
 - **A**) 32
 - (B) 28
 - (C) 12
 - (D) 48
- 12. Multi-Step In a garden there are 3 rows of plants. There are 5 plants in each row. Six of the plants are pumpkin plants and the rest are corn. How many corn plants are in the garden?
 - **(A)** 15
 - **B** 35
 - **©** 9
 - (D) 11

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6 4 Model with Arrays

Write a multiplication sentence for the array.





Use the table to solve 3-5.

3. Draw an array and write a multiplication sentence to show how many science books are on Anna's bookshelves.

Anna's B Kind of Book	ookshelves Number of Rows
Science	3 rows of 4
Art	2 rows of 8
Reading	4 rows of 5

- 4. Write a number sentence to show how many reading books are on Anna's bookshelves.
- 5. Describe three different arrays that Anna can make to show how many art books she has.

Problem Solving



- 6. Sasha makes an array of tiles. She has 3 rows of 9 tiles. Write a multiplication sentence to show Sasha's array.
- 7. Dexter makes an array of tiles. He has 5 rows of 6 tiles. Write a multiplication sentence to show Dexter's array.

Lesson Check

8. Ryan makes this array. Which equation does Ryan's array show?



- (A) $3 \times 7 = 21$
- (B) 3 + 7 = 10
- (C) 3 × 6 = 18
- (D) $3 \times 7 = 20$

9. Ahmad makes this array. Which equation does Ahmad's array show?



- (A) 2 + 6 = 8
- **B** 6+2=8
- (C) $2 \times 6 = 12$
- (D) $2 \times 6 = 26$

- **10.** Becky has 24 stamps. Which describes one array Becky can make using all of the stamps?
 - \bigcirc 3 rows of 6
 - (B) 2 rows of 9
 - (C) 4 rows of 6
 - \bigcirc 5 rows of 3

- 11. Keesha makes an array of 5 rows of 7 stickers. How many stickers does Keesha have?
 - **(A)** 28
 - **B** 12
 - **(C)** 57
 - (D) 35
- 12. Multi-Step DeShawn makes an array using 3 rows of 5 tiles. How many tiles does Deshawn have if he adds 2 more rows to the array?
 - (A) 15
 - **B** 9
 - **(C)** 20
 - (D) 25

- 13. Multi-Step Ming makes an array using 2 rows of 7 tiles. She adds 3 more rows to the array. Which multiplication sentence does Ming's array show?

 - \bigcirc 5 × 7 = 35
 - (D) $9 \times 3 = 27$

Homework and Practice

Name



Commutative Property of Multiplication

Write a multiplication sentence for each model. Then use the Commutative Property of Multiplication to write a related multiplication sentence.

1.







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 \times

3. Josh made 14 potholders. He put an equal number of potholders in each of 2 boxes. Write two related multiplication sentences to show how many potholders Josh made.

× ____ = ____ ____×__=

4. Lu Chen has 21 rocks in a collection. He puts the same number of rocks in each of 3 boxes. Draw an array to show how many rocks are in each box.

Problem Solving



5. Serena makes 5 belts. Each belt has 4 beads. Serena writes $5 \times 4 = 20$ to show the number of beads. Write another multiplication sentence to show the number of beads.

6. Dikembe has 3 packs of 10 baseball cards. He writes $3 \times 10 = 30$ to show the number of cards. Write another multiplication sentence to show the number of baseball cards.

- 7. There are 7 vases with 5 flowers in each vase. Gina multiplies 7×5 to find the number of flowers. What is another way to find the number of flowers?
 - \bigcirc add 7 + 5
 - (B) add 5+7
 - \bigcirc multiply 5×7
 - (D) multiply 7×7
- 9. Demi has 36 toy cars. She puts them in 4 rows with 9 in each row. What is another way Demi can arrange the toy cars to show the Commutative Property of Multiplication?
 - (A) 6 rows of 6
 - **B** 3 rows of 12
 - (C) 9 rows of 4
 - (D) 2 rows of 18
- 11. Multi-Step Juan puts 3 rows of 5 stickers in a book. Then he puts 5 rows of 3 stickers on the next page. How many stickers does Juan put in the book?
 - (A) 15
 - **B** 16
 - © 30
 - (D) 25

- 8. A photo album has 8 pages with 6 photos on each page. Cory multiplies 8 × 6 to find the number of photos. What is another way to find the number of photos?
 - \bigcirc add 6 + 8
 - \bigcirc multiply 6×8
 - (c) add 8 + 6
 - \bigcirc multiply 6×6
- 10. Risa makes this model.







Which of the following can Risa write to show the Commutative Property of Multiplication?

- $\bigcirc A \times 2 = 2 \times 3$
- (\widehat{B}) $2 \times 2 = 3 \times 3$
- \bigcirc 3 × 2 = 1 × 6
- 12. Multi-Step One classroom has 4 rows of 5 chairs. Another classroom has 5 rows of 4 chairs. How many chairs are there in both classrooms?
 - (A) 20
 - **B** 19
 - C 25
 - (D) 40