Name _____ Date _____

1. a. Count by twos 6 times.

_____, _____, _____, _____, _____, _____

b. Draw an array to match your count-by.

c. Write an equation to represent the total number of objects in your array.

_____ × _____ = _____

2. a. Count by sixes 2 times.

_____, _____

b. Draw an array to match your count-by.

c. Write an equation to represent the total number of objects in your array.

_____ × _____ = _____

3. a. Turn your paper to look at the arrays in Problems 1 and 2 in different ways. What is the same and what is different about them?

b. Why are the factors in your equations in a different order?

4. Skip-count to find the total for each expression. Write an equation to match your count-by. The first one is done for you.

a. 6 twos: 6 × 2 = 12

b. 2 sixes: _____

c. 7 twos: _____

d. 2 sevens: _____

e. 9 twos: _____

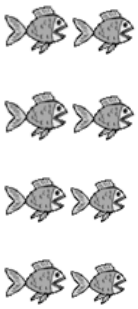
f. 2 nines: _____

**Extension:**

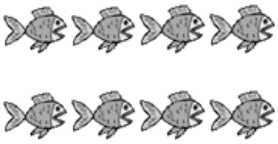
g. 11 twos: _____

h. 2 twelves: _____

5. Write and solve a different equation to describe each array.



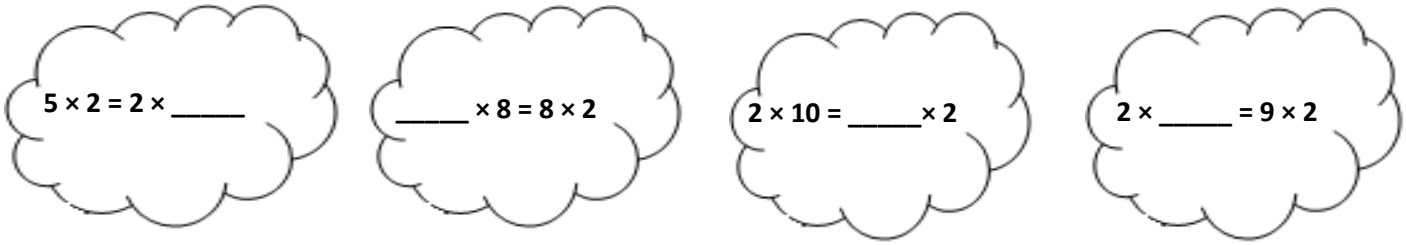
_____



_____

6. Ms. Nenadal writes 2 × 7 = 7 × 2 on the board. Do you agree or disagree? Draw arrays to help explain your thinking.

7. Find the missing factor to make each equation true.




8. Jada gets 2 new packs of erasers. Each pack has 6 erasers in it.
   a. Draw an array to show how many erasers Jada has altogether.

   b. Write and solve an equation to describe the array.

   c. Use the commutative property to write and solve a different equation for the array.

Name _____ Date _____

1. a. Count by threes 5 times.

_____, _____, _____, _____, _____

b. Draw an array that matches your count-by.

2. a. Count by fives 3 times.

_____, _____, _____

b. Draw an array that matches your count-by.

3. Use your arrays from Problems 1 and 2 to fill in the blanks below. Use the commutative property to make the equation true.

_____ × _____ = _____ × _____

**Problem 1** **Problem 2**

4. Skip-count to find the total for each expression. Write an equation to match your count-by. The first one is done for you.

a. 2 threes: 2 × 3 = 6

b. 3 twos: _____

c. 3 fours: _____

d. 4 threes: _____

e. 3 sevens: _____

f. 7 threes: _____

g. 3 nines: _____

h. 9 threes: _____

i. 10 threes: _____

5. Find the unknowns that make the equations true. Then, draw a line to match related facts.

a. 3 + 3 + 3 + 3 + 3 = _____

b. 3 × 9 = _____

c. 7 threes + 1 three = _____

d. 3 × 8 = _____

e. _____ = 5 × 3

f. 27 = 9 × _____

6. Isaac picks 3 tangerines from his tree every day for 7 days.
   a. Use circles to draw an array that represents the tangerines Isaac picks.

   b. How many tangerines does Isaac pick in 7 days? Write and solve a multiplication equation to find the total.

   c. Isaac decides to pick 3 tangerines every day for 3 more days. Draw x's to show the new tangerines on the array in Part (a).

   d. Write and solve a multiplication equation to find the total number of tangerines Isaac picks.

7. Sarah buys bottles of soap. Each bottle costs $2.
   a. How much money does Sarah spend if she buys 3 bottles of soap?

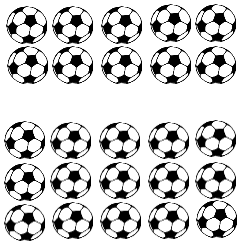
   _____ × _____ = $_____

   b. How much money does Sarah spend if she buys 6 bottles of soap?

   _____ × _____ = $_____

Name _____ Date _____

1. The team organizes soccer balls into 2 rows of 5. The coach adds 3 rows of 5 soccer balls. Complete the equations to describe the total array.

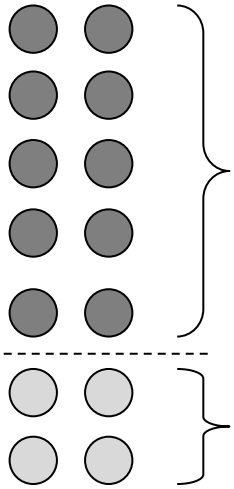


a. (5 + 5) + (5 + 5 + 5) = _____

b. 2 fives + _____ fives = _____ fives

c. _____ × 5 = _____

2. 7 × 2 = _____



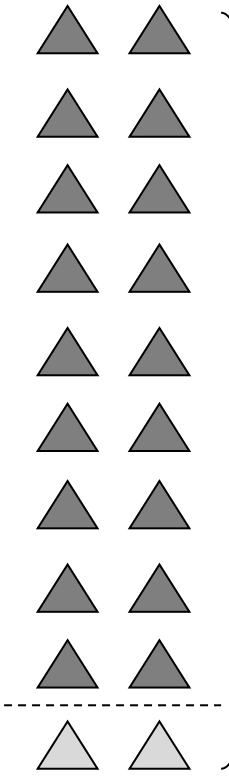
5 × 2 = ___

2 × 2 = ___

10 + 4 = _____

_____ × 2 = 14

3. 9 × 2 = _____



10 × 2 = ___

1 × 2 = ___

20 – _____ = 18

9 × 2 = _____

4. Matthew organizes his baseball cards in 4 rows of 3.

   a. Draw an array that represents Matthew's cards using an x to show each card.

   b. Solve the equation to find Matthew's total number of cards. 4 × 3 = _____

5. Matthew adds 2 more rows. Use circles to show his new cards on the array in Problem 4(a).

   a. Write and solve a multiplication equation to represent the circles you added to the array.

   _____ × 3 = _____

   b. Add the totals from the equations in Problems 4(b) and 5(a) to find Matthew's total cards.

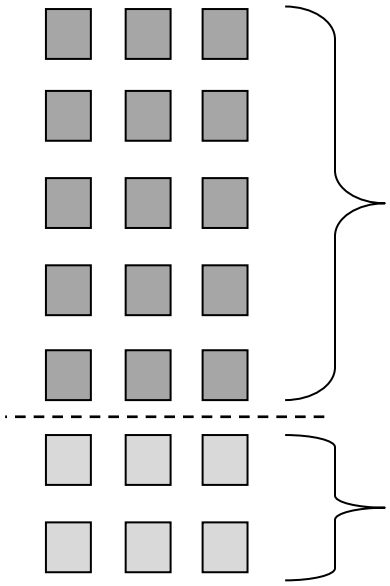
   _____ + _____ = 18

   c. Write the multiplication equation that shows Matthew's total number of cards.

   _____ × _____ = 18

Name _____ Date _____

1. $7 \times 3 = (5 \times 3) + (2 \times 3) =$ _____



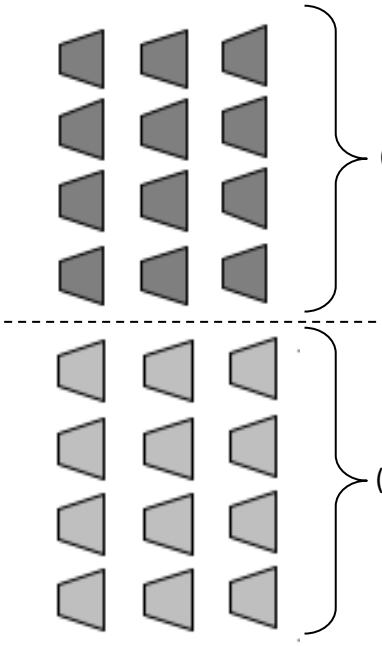
$(5 \times 3) = 15$

$(2 \times 3) =$ _____

$(5 \times 3) + (2 \times 3) = 15 +$ _____

$15 +$ _____ = _____

2. $8 \times 3 = (4 \times 3) + (4 \times 3) =$ _____



(_____ × 3) = _____

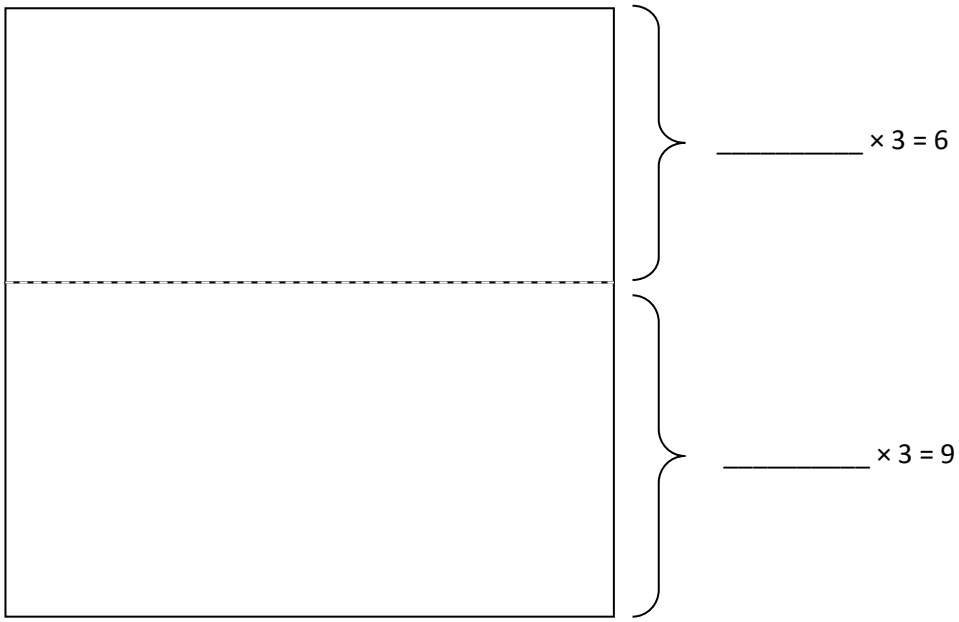
(_____ × 3) = _____

$(4 \times 3) + (4 \times 3) =$ _____ + _____

_____ × 3 = _____

3. Ruby makes a photo album. One page is shown below. Ruby puts 3 photos in each row.

   a. Fill in the equations on the right. Use them to help you draw arrays that show the photos on the top and bottom parts of the page.




   b. Ruby calculates the total number of photos as shown below. Use the array you drew to help explain Ruby's calculation.

**5 × 3 = 6 + 9 = 15**