Name _____   Date _____

1. a. Count by threes 6 times.

   ____, ____,____,____,____,____

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

2. a. Count by sixes 3 times.

   _____, _____, _____

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

2. Write multiplication expressions below to represent your arrays in Problems 1 and 2. Use the commutative property to make the equation true.

   _____ ×_____ = _____ ×_____

       Problem 1   Problem 2

3. Count by the unit (the number in word form) the number of times indicated. Write the multiplication sentence that matches your count by. The first one is done for you.

   a. 5 threes: __5 × 3 = 15__   d. 3 sixes: _____   g. 8 threes: _____
   b. 3 fives: _____   e. 7 threes: _____   h. 3 nines: _____
   c. 6 threes: _____   f. 3 sevens: _____   I. 10 threes: _____

4. Find the unknowns that make the number sentences true. Then draw a line between related facts.

   a. 3 + 3 + 3 + 3 + 3 + 3 = _____   d. 3 × 9 = _____

   b. 3 × 5 = _____   e. _____ = 6 × 3

   c. 8 threes + 1 three = _____   f. 15 = 5 × _____

COMMON CORE   Lesson 8:   Demonstrate the commutativity of multiplication and practice related facts by skip-counting objects in array models.   engage^ny   **1.C.23**

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5. Fernando puts 3 pictures on each page of his photo album. He puts pictures on 8 pages.
   a. Use circles to draw an array that represents the total number of pictures in Fernando's photo album.

   b. Use your array to write and solve a multiplication sentence to find Fernando's total number of pictures.

   c. Fernando adds 2 more pages to his book. He puts 3 pictures on each new page. Draw x's to show the new pictures on the array in Part A.

   d. Write and solve a multiplication sentence to find the new total number of pictures in Fernando's album.

6. Ivania recycles. She gets 3 cents for every can she recycles.
   a. How much money does Ivania make if she recycles 4 cans?

   _____ × _____ = _____ cents

   b. How much money does she make if she recycles 7 cans?

   _____ × _____ = _____ cents

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