Name

Date

1. Draw an array that shows 6 rows of 3.



2. Draw an array that shows 3 rows of 6.

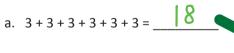


3. Write multiplication expressions for the arrays in Problems 1 and 2. Let the first factor in each expression represent the number of rows. Use the commutative property to make sure the equation below is true.

- 4. Write a multiplication sentence for each expression. You might skip-count to find the totals. The first one is done for you.

  - a. 5 threes:  $5 \times 3 = 15$  d. 3 sixes:  $3 \times 6 = 18$  g. 8 threes:  $8 \times 3 = 24$

- b. 3 fives: 3x5=15 e. 7 threes: 7x3=21 h. 3 nines: 3x9=27
- c. 6 threes: 6x3 = 18 f. 3 sevens: 3x7 = 21 i. 10 threes: 10x3 = 30
- 5. Find the unknowns that make the equations true. Then, draw a line to match related facts.



d. 3×9= 27

c. 8 threes + 1 three = \_

## A STORY OF UNITS

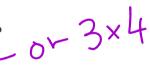
- 6. Fernando puts 3 pictures on each page of his photo album. He puts pictures on 8 pages.
  - a. Use circles to draw an array that represents the total number of pictures in Fernando's photo album.



- b. Use your array to write and solve a multiplication sentence to find Fernando's total number of pictures.  $3 \times 8 = 24$  or  $8 \times 3 = 24$
- 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.

$$3 \times 10 = 30$$
 or  $10 \times 3 = 30$ 

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



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

$$\frac{7}{2} \times \frac{3}{2} = \frac{21}{2}$$
 cents or  $3 \times 7$