

Eureka Math™

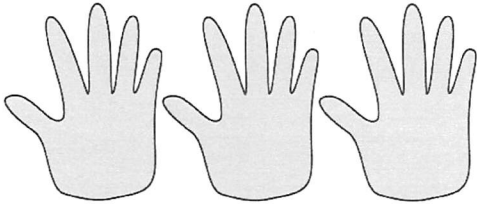
**Grade 3**

Pages 2-13

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Fill in the blanks to make true statements.

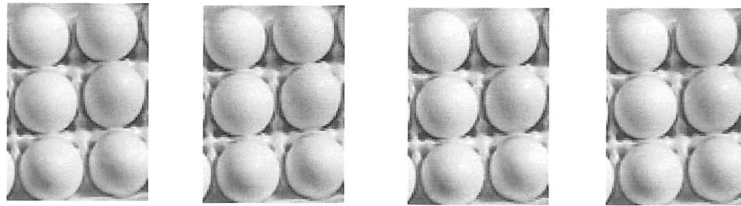


a. 3 groups of five = \_\_\_\_\_

3 fives = \_\_\_\_\_

 $3 \times 5 =$  \_\_\_\_\_b.  $3 + 3 + 3 + 3 + 3 =$  \_\_\_\_\_

5 groups of three = \_\_\_\_\_

 $5 \times 3 =$  \_\_\_\_\_c.  $6 + 6 + 6 + 6 =$  \_\_\_\_\_

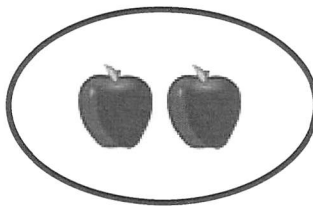
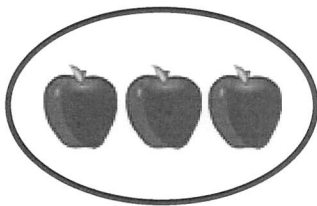
\_\_\_\_\_ groups of six = \_\_\_\_\_

 $4 \times$  \_\_\_\_\_ = \_\_\_\_\_d.  $4 +$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $=$  \_\_\_\_\_

6 groups of \_\_\_\_\_ = \_\_\_\_\_

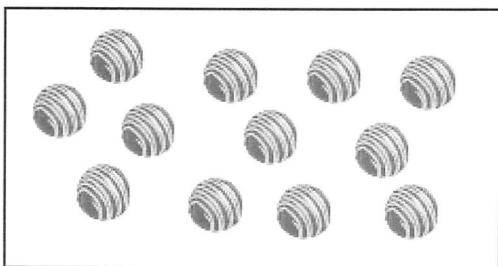
 $6 \times$  \_\_\_\_\_ = \_\_\_\_\_

2. The picture below shows 2 groups of apples. Does the picture show  $2 \times 3$ ? Explain why or why not.



3. Draw a picture to show  $2 \times 3 = 6$ .

4. Caroline, Brian, and Marta share a box of chocolates. They each get the same amount. Circle the chocolates below to show 3 groups of 4. Then, write a repeated addition sentence and a multiplication sentence to represent the picture.



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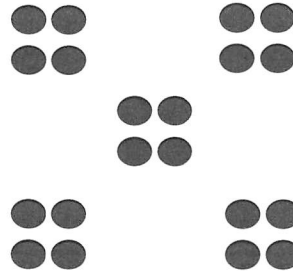
1. Fill in the blanks to make true statements.



a. 4 groups of five = \_\_\_\_\_

4 fives = \_\_\_\_\_

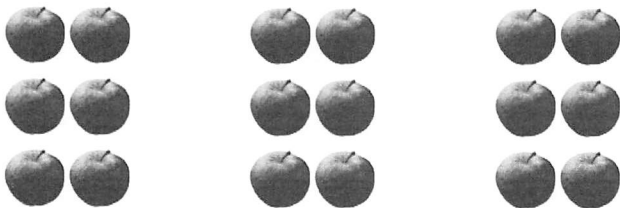
$4 \times 5 =$  \_\_\_\_\_



b. 5 groups of four = \_\_\_\_\_

5 fours = \_\_\_\_\_

$5 \times 4 =$  \_\_\_\_\_



c.  $6 + 6 + 6 =$  \_\_\_\_\_

\_\_\_\_\_ groups of six = \_\_\_\_\_

$3 \times$  \_\_\_\_\_ = \_\_\_\_\_

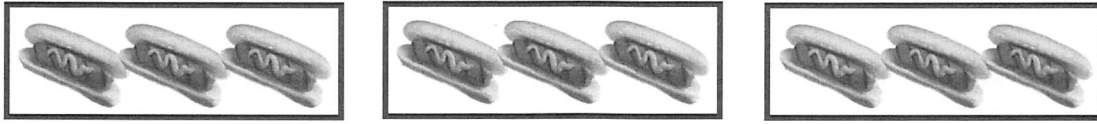


d.  $3 +$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $+$  \_\_\_\_\_  $=$  \_\_\_\_\_

6 groups of \_\_\_\_\_ = \_\_\_\_\_

$6 \times$  \_\_\_\_\_ = \_\_\_\_\_

2. The picture below shows 3 groups of hot dogs. Does the picture show  $3 \times 3$ ? Explain why or why not.



3. Draw a picture to show  $4 \times 2 = 8$ .

4. Circle the pencils below to show 3 groups of 6. Write a repeated addition and a multiplication sentence to represent the picture.

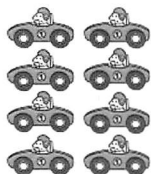


Name \_\_\_\_\_

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Use the arrays below to answer each set of questions.

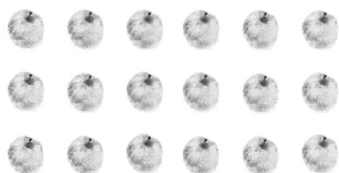
1.



a. How many rows of cars are there? \_\_\_\_\_

b. How many cars are there in each row? \_\_\_\_\_

2.



a. What is the number of rows? \_\_\_\_\_

b. What is the number of objects in each row? \_\_\_\_\_

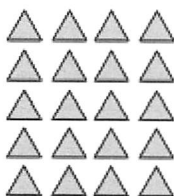
3.



a. There are 4 spoons in each row. How many spoons are in 2 rows? \_\_\_\_\_

b. Write a multiplication expression to describe the array. \_\_\_\_\_

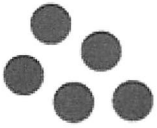
4.



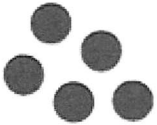
a. There are 5 rows of triangles. How many triangles are in each row? \_\_\_\_\_

b. Write a multiplication expression to describe the total number of triangles.  
\_\_\_\_\_

5. The dots below show 2 groups of 5.



- a. Redraw the dots as an array that shows 2 rows of 5.



- b. Compare the drawing to your array. Write at least 1 reason why they are the same and 1 reason why they are different.

6. Emma collects rocks. She arranges them in 4 rows of 3. Draw Emma's array to show how many rocks she has altogether. Then, write a multiplication equation to describe the array.

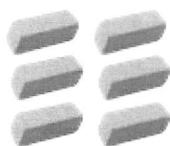
7. Joshua organizes cans of food into an array. He thinks, "My cans show  $5 \times 3$ !" Draw Joshua's array to find the total number of cans he organizes.

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Use the arrays below to answer each set of questions.

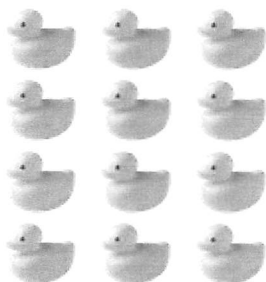
1.



a. How many rows of erasers are there? \_\_\_\_\_

b. How many erasers are there in each row? \_\_\_\_\_

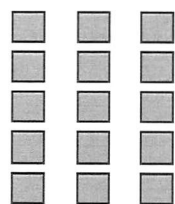
2.



a. What is the number of rows? \_\_\_\_\_

b. What is the number of objects in each row? \_\_\_\_\_

3.



a. There are 3 squares in each row. How many squares are in 5 rows? \_\_\_\_\_

b. Write a multiplication expression to describe the array. \_\_\_\_\_

4.

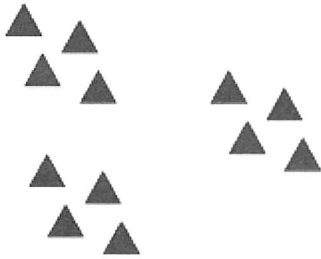


a. There are 6 rows of stars. How many stars are in each row? \_\_\_\_\_

b. Write a multiplication expression to describe the array. \_\_\_\_\_



5. The triangles below show 3 groups of four.

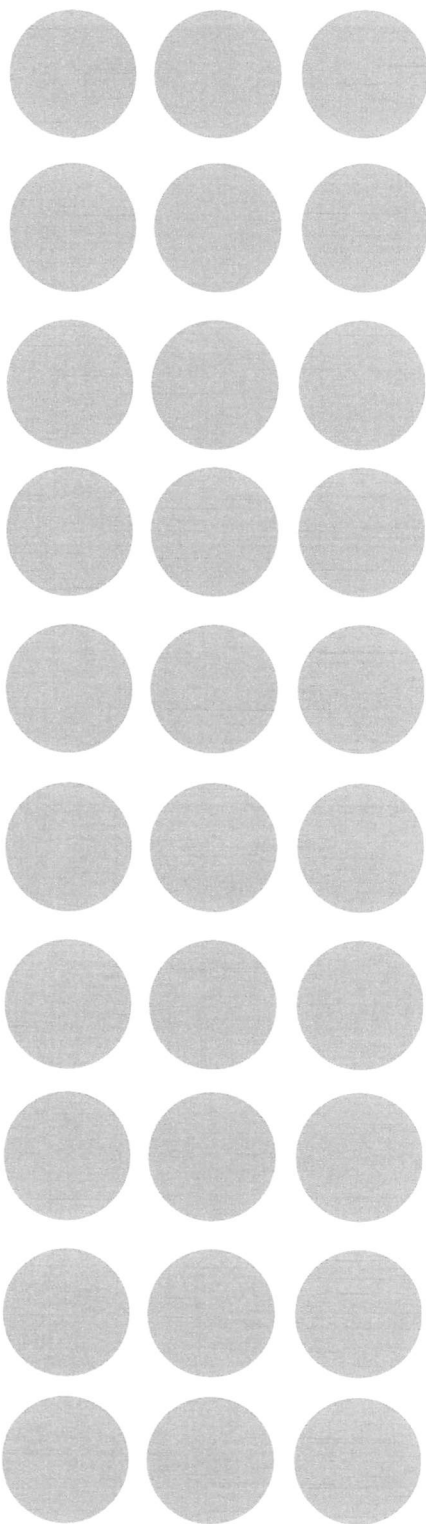


- a. Redraw the triangles as an array that shows 3 rows of four.

- b. Compare the drawing to your array. How are they the same? How are they different?

6. Roger has a collection of stamps. He arranges the stamps into 5 rows of four. Draw an array to represent Roger's stamps. Then, write a multiplication equation to describe the array.

7. Kimberly arranges her 18 markers as an array. Draw an array that Kimberly might make. Then, write a multiplication equation to describe your array.



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threes array

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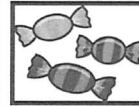
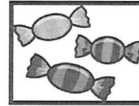
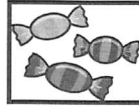
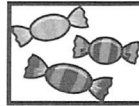
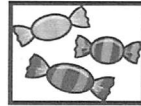
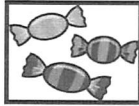
Solve Problems 1–4 using the pictures provided for each problem.

1. There are 5 flowers in each bunch. How many flowers are in 4 bunches?



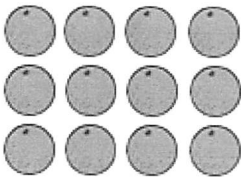
- a. Number of groups: \_\_\_\_\_ Size of each group: \_\_\_\_\_
- b.  $4 \times 5 =$  \_\_\_\_\_
- c. There are \_\_\_\_\_ flowers altogether.

2. There are \_\_\_\_\_ candies in each box. How many candies are in 6 boxes?



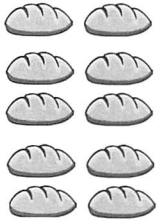
- a. Number of groups: \_\_\_\_\_ Size of each group: \_\_\_\_\_
- b.  $6 \times$  \_\_\_\_\_  $=$  \_\_\_\_\_
- c. There are \_\_\_\_\_ candies altogether.

3. There are 4 oranges in each row. How many oranges are there in \_\_\_\_\_ rows?



- a. Number of rows: \_\_\_\_\_ Size of each row: \_\_\_\_\_
- b. \_\_\_\_\_  $\times 4 =$  \_\_\_\_\_
- c. There are \_\_\_\_\_ oranges altogether.

4. There are \_\_\_\_\_ loaves of bread in each row. How many loaves of bread are there in 5 rows?



a. Number of rows: \_\_\_\_\_ Size of each row: \_\_\_\_\_

b. \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

c. There are \_\_\_\_\_ loaves of bread altogether.

5. a. Write a multiplication equation for the array shown below.

X X X  
 X X X  
 X X X  
 X X X

b. Draw a number bond for the array where each part represents the amount in one row.

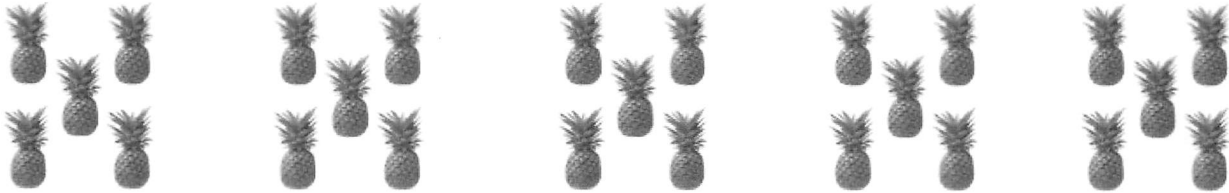
6. Draw an array using factors 2 and 3. Then, show a number bond where each part represents the amount in one row.

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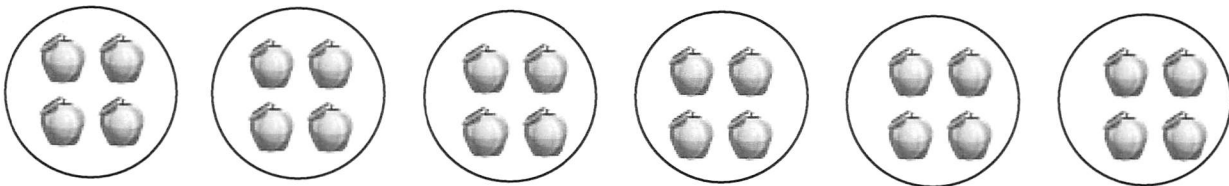
Solve Problems 1–4 using the pictures provided for each problem.

1. There are 5 pineapples in each group. How many pineapples are there in 5 groups?



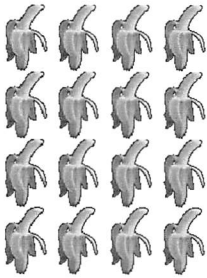
- a. Number of groups: \_\_\_\_\_ Size of each group: \_\_\_\_\_
- b.  $5 \times 5 =$  \_\_\_\_\_
- c. There are \_\_\_\_\_ pineapples altogether.

2. There are \_\_\_\_\_ apples in each basket. How many apples are there in 6 baskets?



- a. Number of groups: \_\_\_\_\_ Size of each group: \_\_\_\_\_
- b.  $6 \times$  \_\_\_\_\_  $=$  \_\_\_\_\_
- c. There are \_\_\_\_\_ apples altogether.

3. There are 4 bananas in each row. How many bananas are there in \_\_\_\_\_ rows?

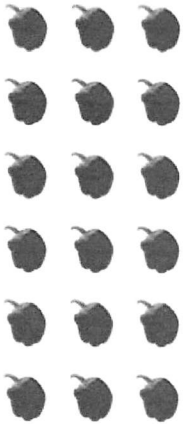


a. Number of rows: \_\_\_\_\_ Size of each row: \_\_\_\_\_

b. \_\_\_\_\_  $\times$  4 = \_\_\_\_\_

c. There are \_\_\_\_\_ bananas altogether.

4. There are \_\_\_\_\_ peppers in each row. How many peppers are there in 6 rows?



a. Number of rows: \_\_\_\_\_ Size of each row: \_\_\_\_\_

b. \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

c. There are \_\_\_\_\_ peppers altogether.

5. Draw an array using factors 4 and 2. Then, show a number bond where each part represents the amount in one row.