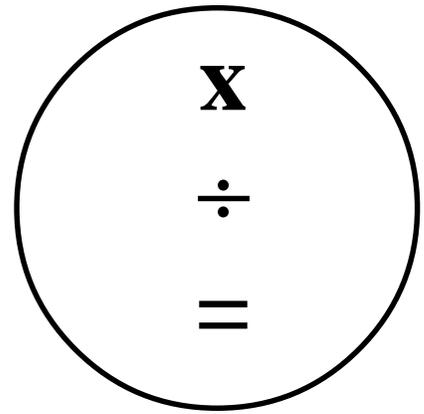


# Chapter 3

making groups and dividing into groups

- 1 Given a grouping or division situation, represents that situation by writing a math sentence involving grouping notation — for example,  $3(5) + 1 = \square$ , which is read 'three groups of five plus one is equal to something.'
- 2 Given a sentence involving grouping notation, confirms the solution.



- 3 Given an incomplete math sentence involving grouping notation, computes the solution.
- 4 Given a grouping sentence, writes equivalent multiplication and division sentences.

## MULTIPLICATION

## DIVISION

$3(5) + 1 = \square$      $3(\square) + 1 = 16$



Write a math sentence to describe the problem.  
Using objects to represent each story,  
answer each question.

1. Measuring cups:  
You are to put them in rows of  
5. You have 21 cups.  
How many rows? \_\_\_\_\_

How many left over? \_\_\_\_\_

3. Dishcloths:  
You are to fold them and put the  
same number into each of 5  
bags. You have 17 of them.  
How many in each bag? \_\_\_\_\_

How many left over? \_\_\_\_\_

5. Cake pans:  
You stacked them in stacks of  
8. You have 3 stacks and 4 pans  
left over.  
How many pans? \_\_\_\_\_

2. Measuring spoons:  
You hung 8 sets of spoons on a  
hook. Each set has 3 spoons  
How many spoons altogether?  
\_\_\_\_\_

4. Sponges:  
You are stacking sponges. You  
want 6 equal stacks. There are  
26 sponges.  
How many in each stack? \_\_\_\_\_

How many left over? \_\_\_\_\_

6. Can openers:  
You are boxing 27 can openers.  
If 9 go in each box, how many  
boxes do you need? \_\_\_\_\_

How many openers left over?  
\_\_\_\_\_

STUDENT PAGE 1 ACTIVITY 3A

Circle the correct math sentence for each problem.  
Then solve it.

- |  |                             |
|--|-----------------------------|
| <p>1. You have 30 oranges to package. Put them in packages of 5.</p>   | $5(\square) + \square = 30$ |
| <p>How many packages?</p>  | $30 = \square(5) + \square$ |
| <p>How many left over?</p>   | $30(\square) + \square = 5$ |
| <p>2. You want to make 4 packages of grape fruit. There will be 5 grape fruit in each. Keep 2 extra.</p>     | $\square = 2(5) + 4$        |
| <p>How many altogether?</p>  | $5(4) + \square = \square$  |
| <p>3. You are putting pears into boxes. You want to put an equal number into 3 boxes. You have 17 pears.</p> | $3(\square) + \square = 17$ |
| <p>How many in each box?</p>   | $17(\square) + 3 = \square$ |
| <p>4. You're packing apples in packages of 4. You have 26 apples.</p>  | $4(26) + \square = \square$ |
| <p>How many packages?</p>  | $4(\square) = 26$           |
| <p>How many apples left over?</p>  | $\square(4) + \square = 26$ |

For each problem circle the correct math sentence.  
Then solve it.

1. There are 3 cards with 7 buttons on each. There is 1 extra button. How many buttons are there?

\_\_\_\_\_

$$7(3) + \boxed{\phantom{00}} = 1$$

$$3(7) + 1 = \boxed{\phantom{00}}$$

$$1(7) + 3 = \boxed{\phantom{00}}$$

3. Altogether there are 19 buttons. Each card holds 4 buttons. How many cards are there? \_\_\_\_\_

How many buttons are extra? \_\_\_\_\_

$$\boxed{\phantom{00}}(4) + \boxed{\phantom{00}} = 19$$

$$19(4) + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}}(4) + 19 = \boxed{\phantom{00}}$$

2. There are 6 cards of buttons. Each card had the same number of buttons. Altogether there are 13 buttons. How many buttons are on each card?

\_\_\_\_\_

How many extra buttons are there? \_\_\_\_\_

$$6(13) + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$6(\boxed{\phantom{00}}) + 13 = \boxed{\phantom{00}}$$

$$6(\boxed{\phantom{00}}) + \boxed{\phantom{00}} = 13$$

4. There are 5 cards with 2 buttons on each card. There is 1 extra button. How many buttons are there? \_\_\_\_\_

$$1(2) + \boxed{\phantom{00}} = 5$$

$$5(2) + 1 = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}}(2) + 1 = 5$$

STUDENT PAGE 3 ACTIVITY 3A

Fill in each box with the number the problem says.  
 If the number is not given, put a '?' in the box.  
 Write math sentence for each problem and solve it.

Problem	How many groups?	How many in each?	How many left over?	Total	Math sentence
1. 5 boxes of balloons 4 in each box 2 left over					
2. 27 whistles 4 bags					
3. 18 sticks of gum 5 in each package					
4. 8 books per shelf 2 shelves 1 left over					

STUDENT PAGE 4 ACTIVITY 3A

Circle what you know and what you do not know.  
Write a math sentence for each problem and solve it

Problem	I know	I do not know	Math sentence
1. There are 4 rows of cars with 3 cars in each. There is 1 car left over. How many cars are there altogether?	number of groups number in each group number left over total	number of groups number in each group number left over total	
2. The plant has some stems with 3 flowers on each stem. 1 flower is on the ground. Altogether there are 19 flowers. How many stems are on the plant.	number of groups number in each group number left over total	number of groups number in each group number left over total	
3. The cabinet has 6 shelves. There are 5 books on each shelf and some extras in a box. There are 32 books altogether. How many extras are in the box?	number of groups number in each group number left over total	number of groups number in each group number left over total	

STUDENT PAGE 5 ACTIVITY 3A