

Eureka Math

3rd Grade Module 1 Lesson 3

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Directions for customizing presentations are available on the next slide.



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Reflecting your Teaching Style and Learning Needs of Your Students

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Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

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ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

Icons



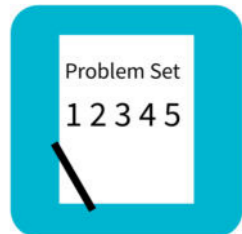
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



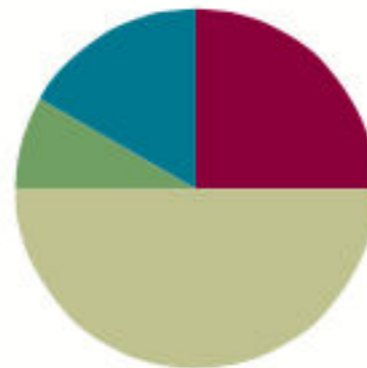
Small Group Time

Lesson 3

Objective: Interpret the meaning of factors—the size of the group or the number of groups.

Suggested Lesson Structure

■ Fluency Practice	(15 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(30 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





I can interpret the meaning of factors -- the size of the group or the number of groups.



Sprint: Add Equal Groups

Put your name on side A.

Hold your pencil in the air to show you are ready.

When your teacher says, “Go”, begin solving.

Keep working to solve as many problems as you can.

When your teacher says, “Stop”, stop answering problems and hold your pencil in the air.

A

Add Equal Groups

1.	$2 + 2 =$	
2.	2 twos =	
3.	$5 + 5 =$	
4.	2 fives =	

23.	$7 + 7 =$	
24.	2 sevens =	
25.	$9 + 9 =$	
26.	2 nines =	

Number Correct: _____



Sprint: Add Equal Groups

Listen and check your work as your teacher reads the correct answers.

Count how many problems you answered correctly and write them in the circle.

Follow the same steps for side B. On side B, try to solve more problems than you did on side A.

B

Add Equal Groups

1.	$5 + 5 =$	
2.	2 fives =	
3.	$2 + 2 =$	
4.	2 twos =	

23.	$8 + 8 =$	
24.	2 eights =	
25.	$7 + 7 =$	
26.	2 sevens =	

Number Correct: _____

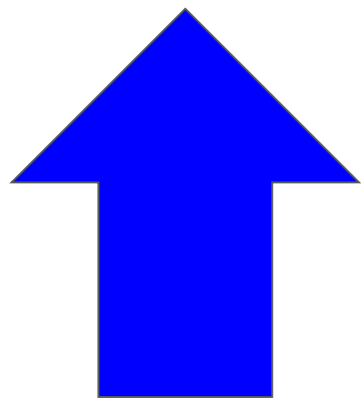
Improvement: _____



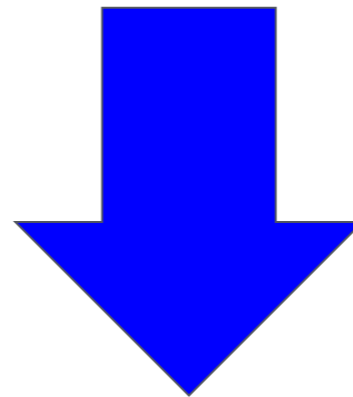
Group Counting

Let's count by **twos**.

Watch my fingers to know whether or not to count up or count down. A closed hand means to stop.



Count up



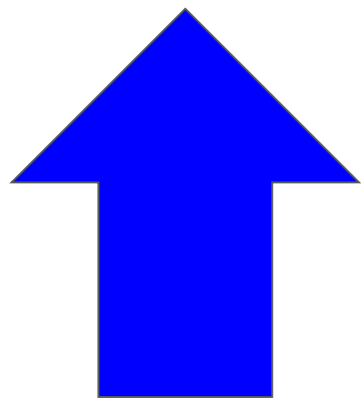
Count down



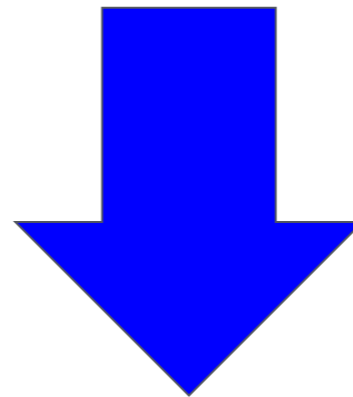
Group Counting

Let's count by **threes**.

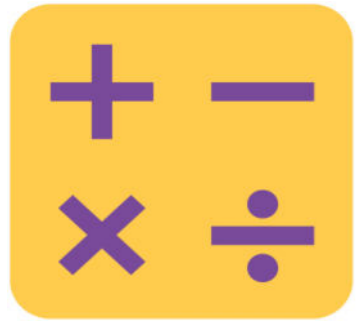
Watch my fingers to know whether or not to count up or count down. A closed hand means to stop.



Count up

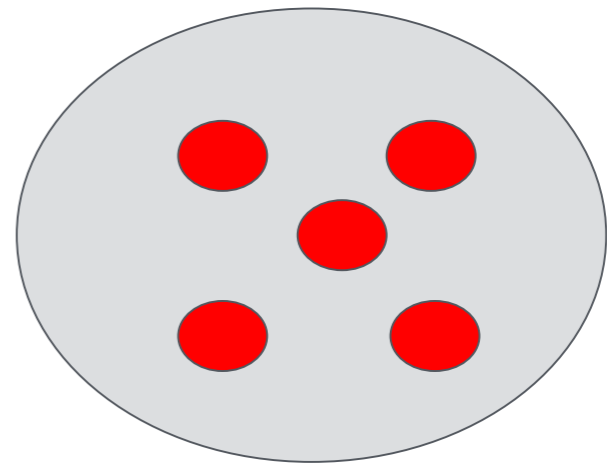
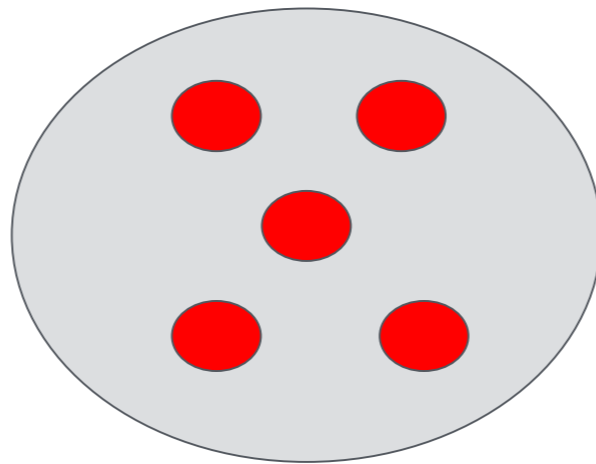
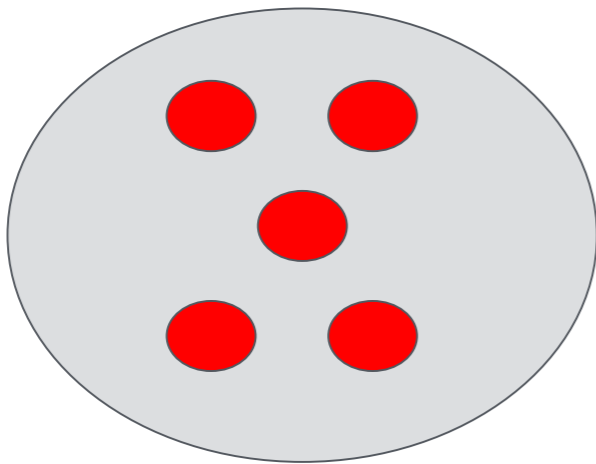


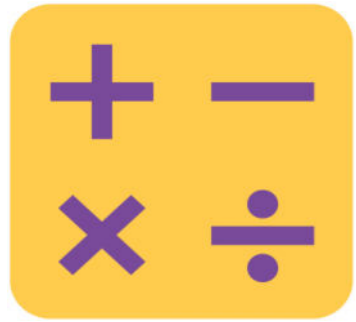
Count down



Add to Multiply

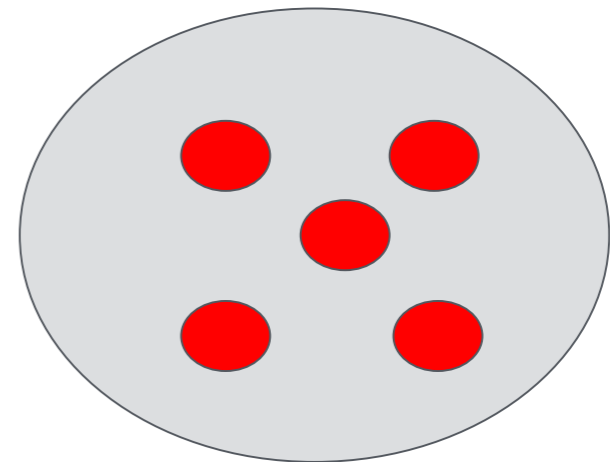
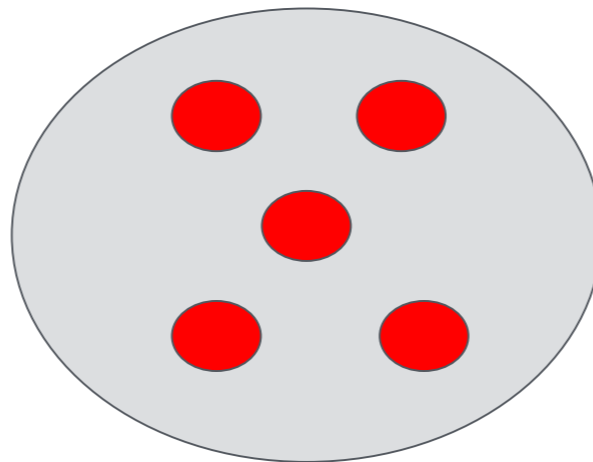
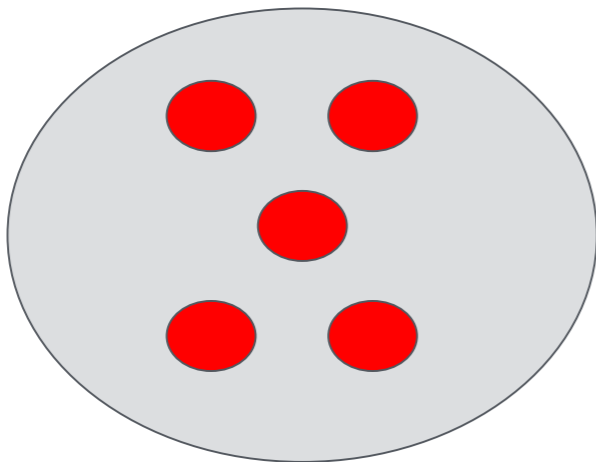
How many groups are circled?

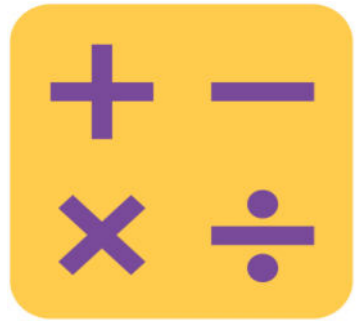




Add to Multiply

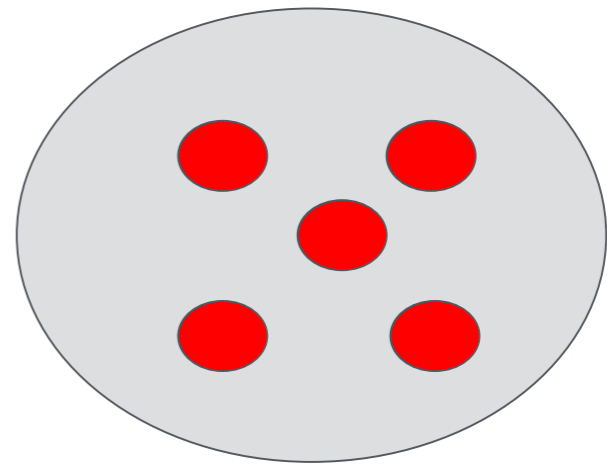
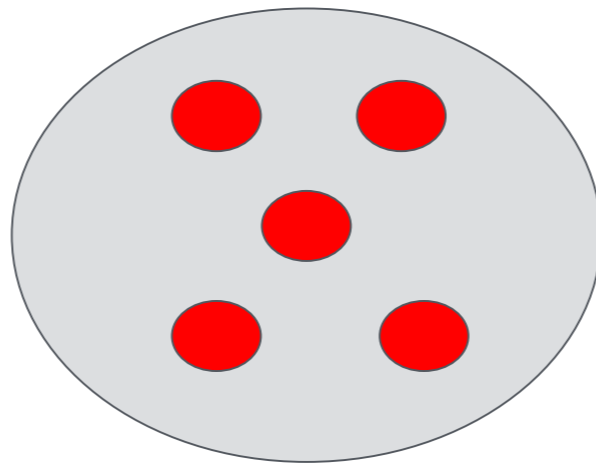
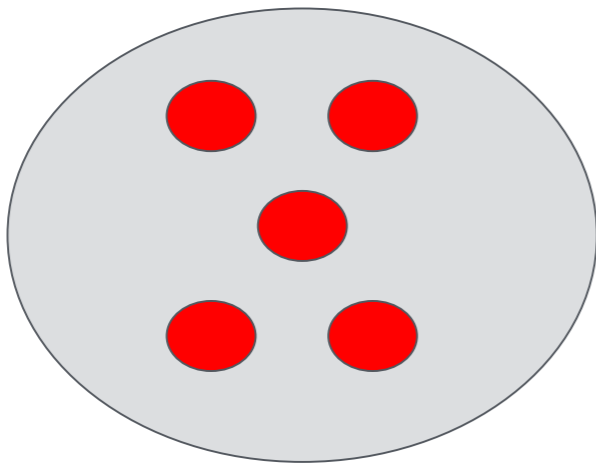
How many are there in each group?

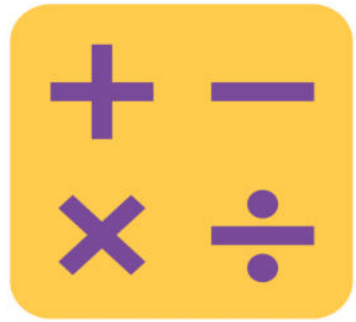




Add to Multiply

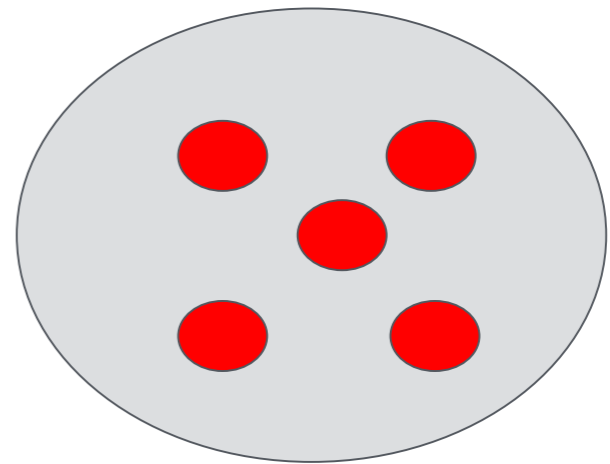
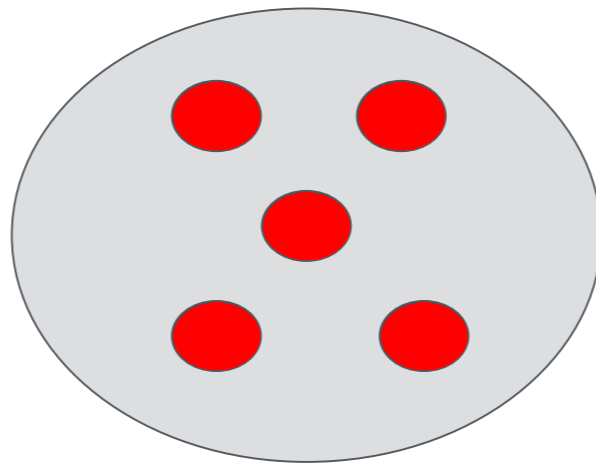
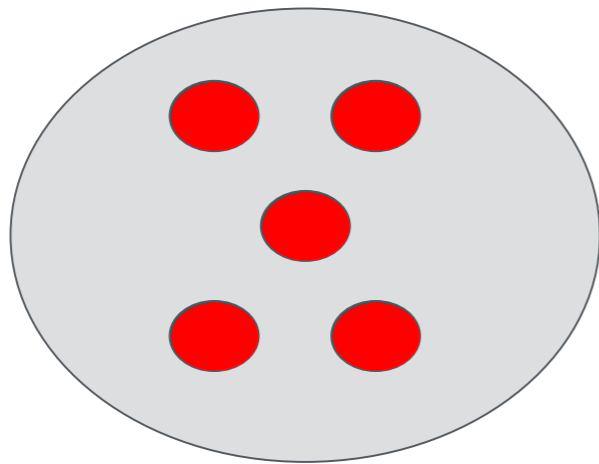
Write this as an addition sentence.





Add to Multiply

Write a multiplication sentence representing 3 *fives* equals 15.



Application Problem

Robbie sees that a carton of eggs shows an array with two rows of 6 eggs. What is the total number of eggs in the carton? Use the RDW process to show your solution.





Opening Activity

Here are the rules for our opening activity.

1. **Divide** yourselves into 4 equal groups.
2. Each group will stand into a corner of the room.
3. Divide silently. You can use body movements to gesture, but no words.

Show a thumbs up when your group is ready. Be sure to look around the room to double check that all 4 groups are equal before showing you're ready.



Opening Activity

At the signal tell how many equal groups we've made.



Opening Activity

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

At the signal tell each size of each group.



Opening Activity

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

These numbers-- the number of groups and the number in each group-- are called **factors**.



Meaning of Factors

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Use the multiplication equation on the board to draw an array.

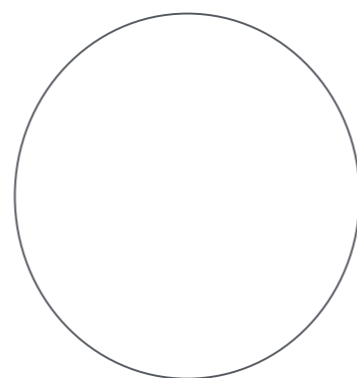
Make sure that your board is vertical.



Meaning of Factors

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Let's draw a number bond for our equation. Draw a circle with our class total.

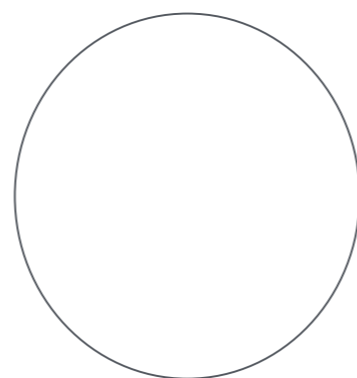




Meaning of Factors

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Draw parts coming from the total. Make 1 part to represent each row in our array.





Meaning of Factors

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Show the size of 1 row with your fingers.



Meaning of Factors

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Write a factor representing the size of the group inside the circles.



Meaning of Factors

$$4 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Look back at the equation. How is the factor 4 represented in the number bond?



Meaning of Factors

$$2 \times 8 = \underline{\hspace{2cm}}$$

Use the multiplication equation on the board to draw an array.

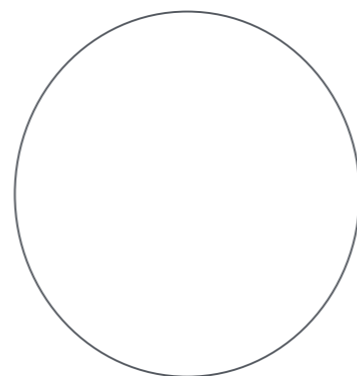
Make sure that your board is vertical.



Meaning of Factors

$$2 \times 8 = \underline{\hspace{2cm}}$$

Let's draw a number bond for our equation. Draw a circle with the total.

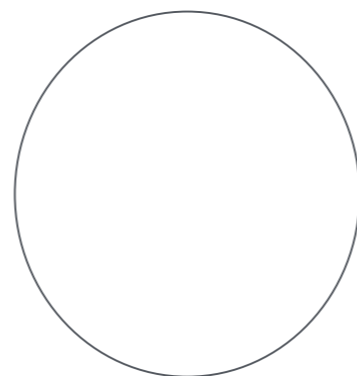




Meaning of Factors

$$2 \times 8 = \underline{\hspace{2cm}}$$

Draw parts coming from the total. Make 1 part to represent each row in our array.





Meaning of Factors

$$2 \times 8 = \underline{\hspace{2cm}}$$

Show the size of 1 row with your fingers.



Meaning of Factors

$$2 \times 8 = \underline{\hspace{2cm}}$$

Write a factor representing the size of the group inside the circles.



Meaning of Factors

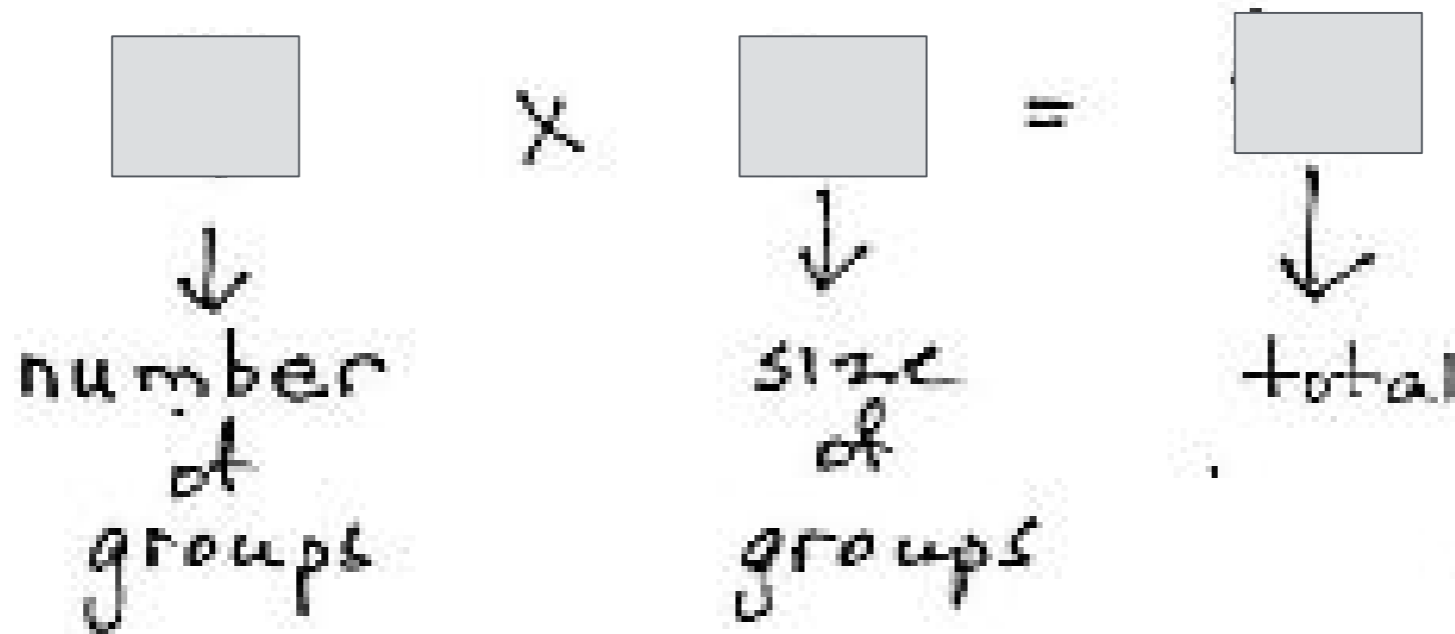
$$2 \times 8 = \underline{\hspace{2cm}}$$

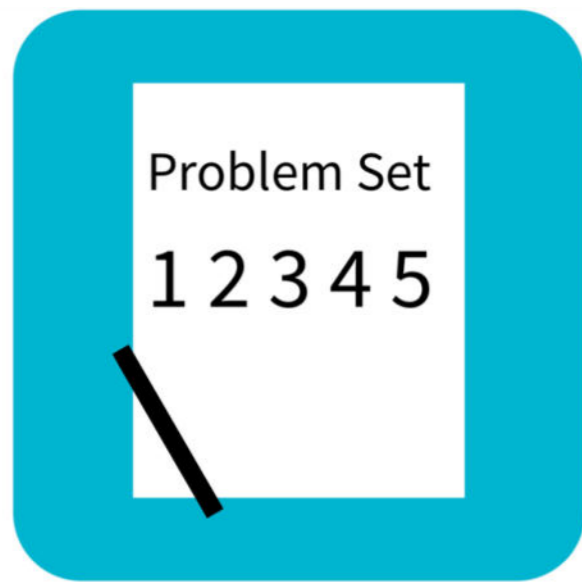
Look back at the equation. How is the factor 2 represented in the number bond?



Meaning of Factors

Here is the analysis of our equation.





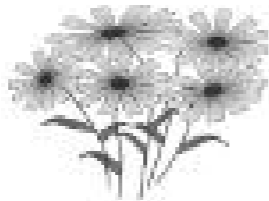
Problem Set

Name _____

Date _____

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.

Debrief

Why do you think I started the lesson by asking you to **divide** yourselves into equal groups in the corners of the room?

Identify the **factors** and their meanings from each image in Problems 1 - 5.

In Problem 6, discuss the two ways to draw the array and the number bond with factors 2 and 3.

Module 1 introduces many new vocabulary words: *row, array, multiply, multiplication, number of groups, size of groups, divide, factor, etc.* Consider having

Exit Ticket

Name _____

Date _____

Draw an array that shows 5 rows of 3 squares. Then, show a number bond where each part represents the amount in one row.