



Materials List

(S) Personal white board

Eureka Math

3rd Grade
Module 3
Lesson 10

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.



This work by Bethel School District (www.bethelsd.org) is licensed under the Creative Commons Attribution Non-Commercial Share-Alike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>. Bethel School District Based this work on Eureka Math by Common Core (<http://greatminds.net/maps/math/copyright>) Eureka Math is licensed under a Creative Commons Attribution Non-Commercial-ShareAlike 4.0 License.

Customize this Slideshow

Reflecting your Teaching Style and Learning Needs of Your Students

- When the Google Slides presentation is opened, it will look like Screen A.
- Click on the “pop-out” button in the upper right hand corner to change the view.
- The view now looks like Screen B.
- Within Google Slides (not Chrome), choose FILE.
- Choose MAKE A COPY and rename your presentation.
- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.

Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

File Edit View Insert Slide Format Arrange Tools Table Help Last edit was yesterday at

Share...

New

Open...

Rename...

Make a copy...

Organize...

Move to trash

Import slides...

See revision history

Language

Download as

Publish to the web...

Email collaborators...

Email as attachment...

Page setup...

Print settings and preview

Print

Copy document

Enter a new document name:

Rename Your Presentation

Comments will not be copied to the new document.

Share it with the same people

OK Cancel

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



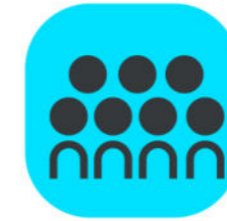
Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



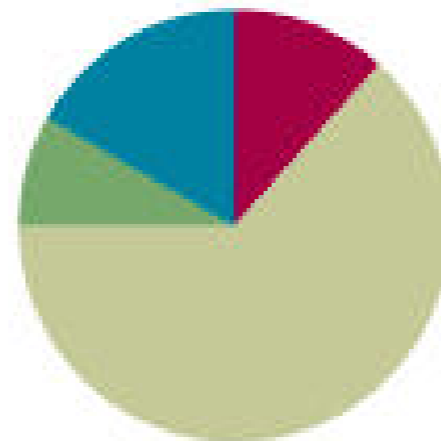
Small Group Time

Lesson 10

Objective: Use the distributive property as a strategy to multiply and divide.

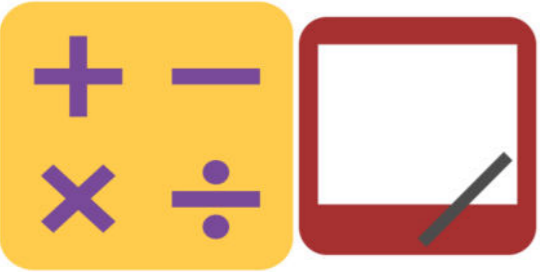
Suggested Lesson Structure

■ Fluency Practice	(7 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(38 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





I can use the distributive property as a strategy to multiply and divide.



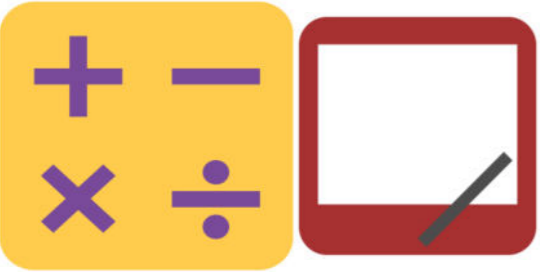
Group Counting

Sixes to 60

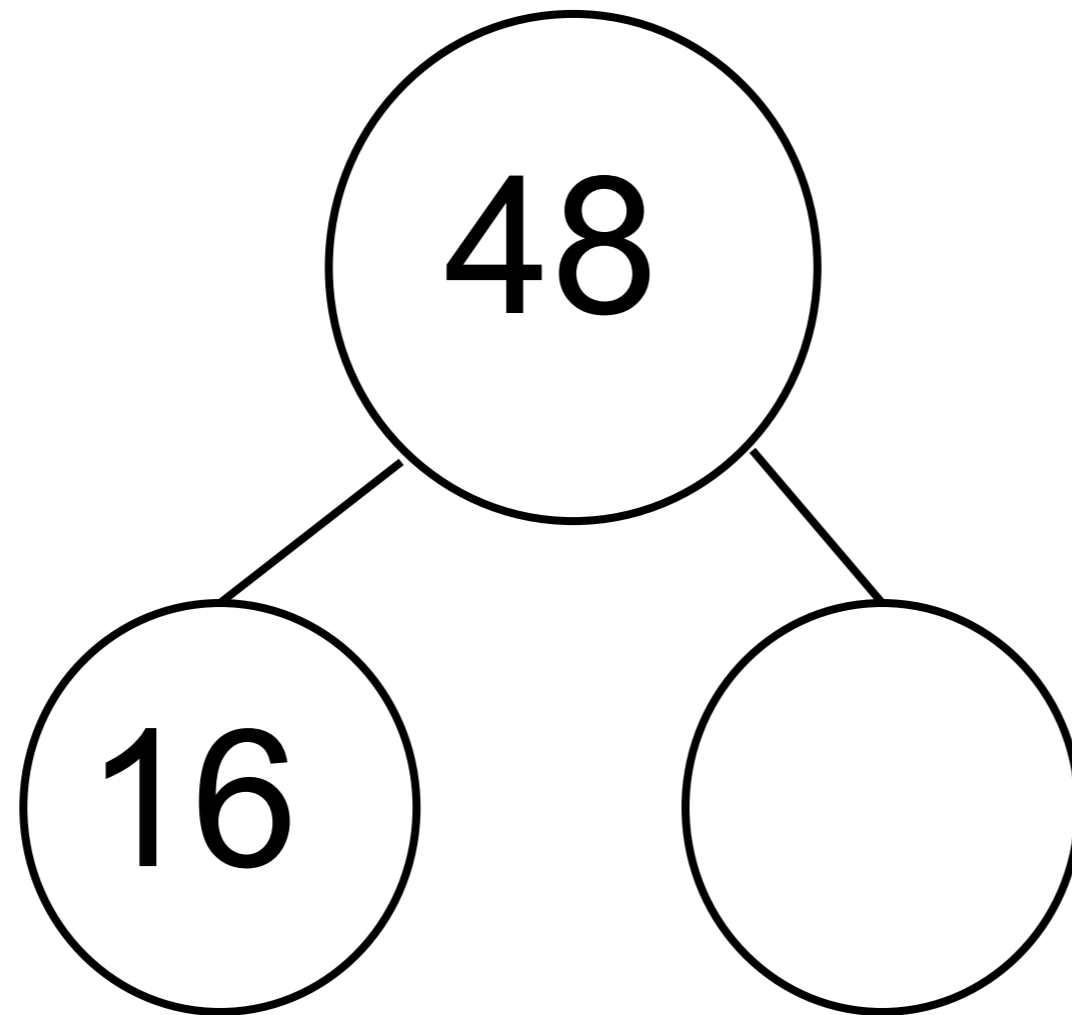
Sevens to 70

Eights to 80

Nines to 90



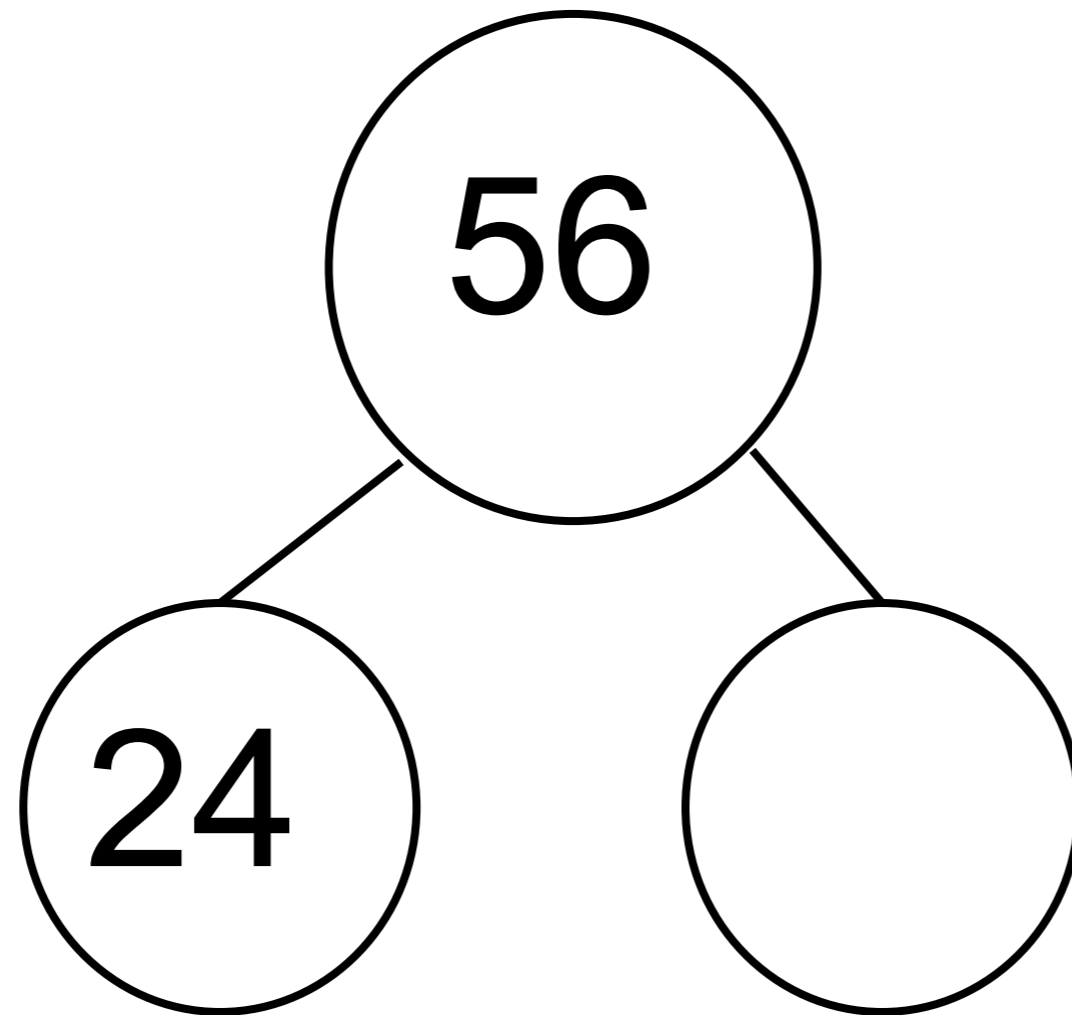
Decompose Multiples of 8



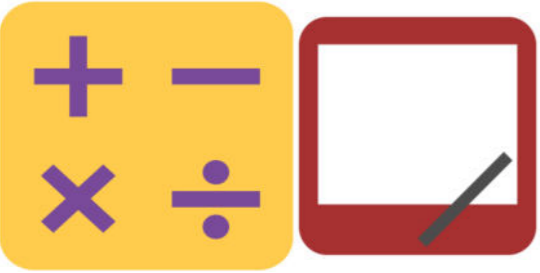
On your personal white board, fill in the unknown part in the number bond.



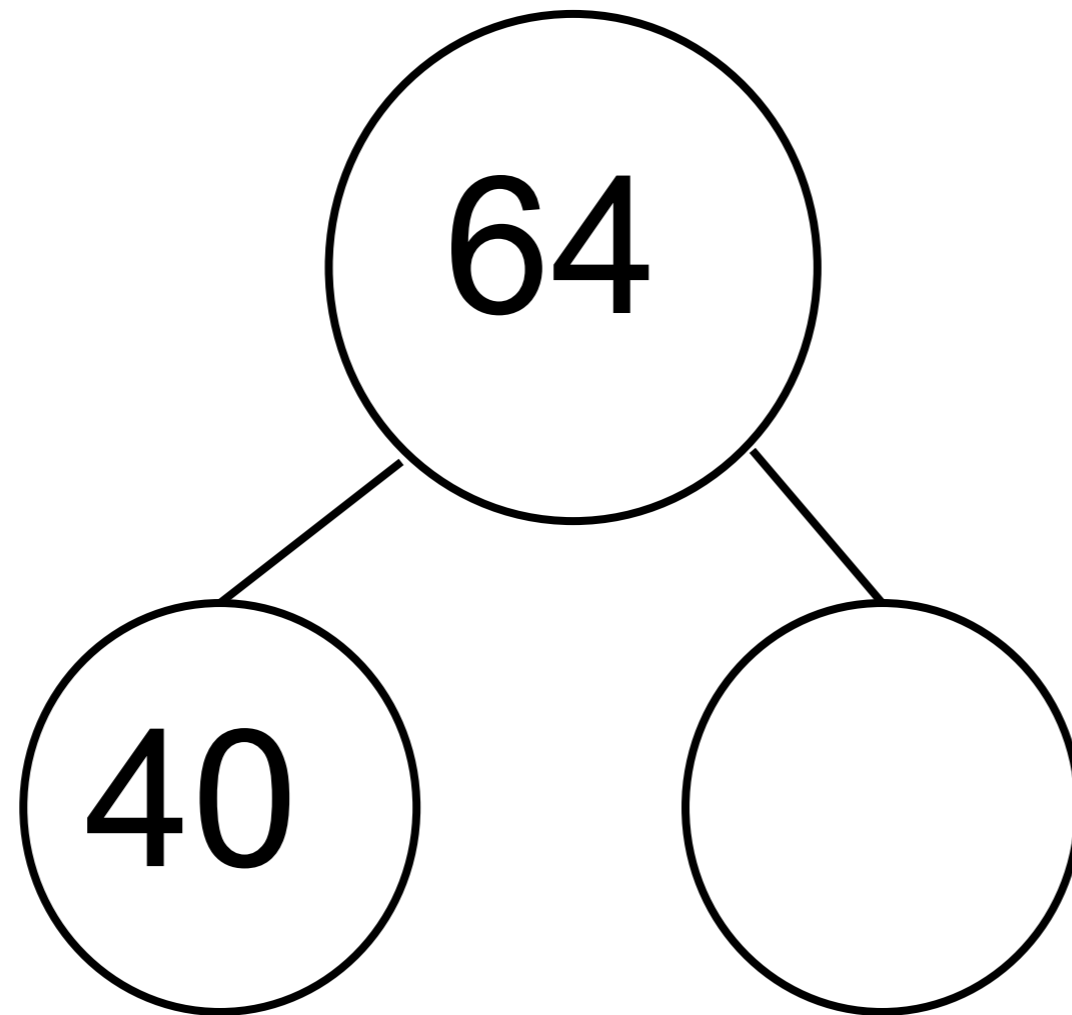
Decompose Multiples of 8



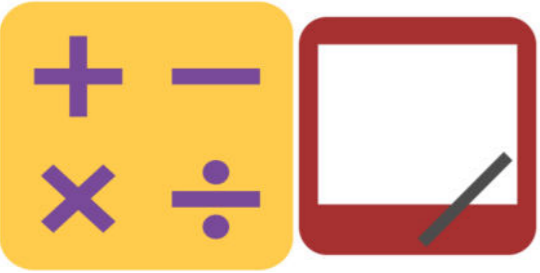
On your personal white board, fill in the unknown part in the number bond.



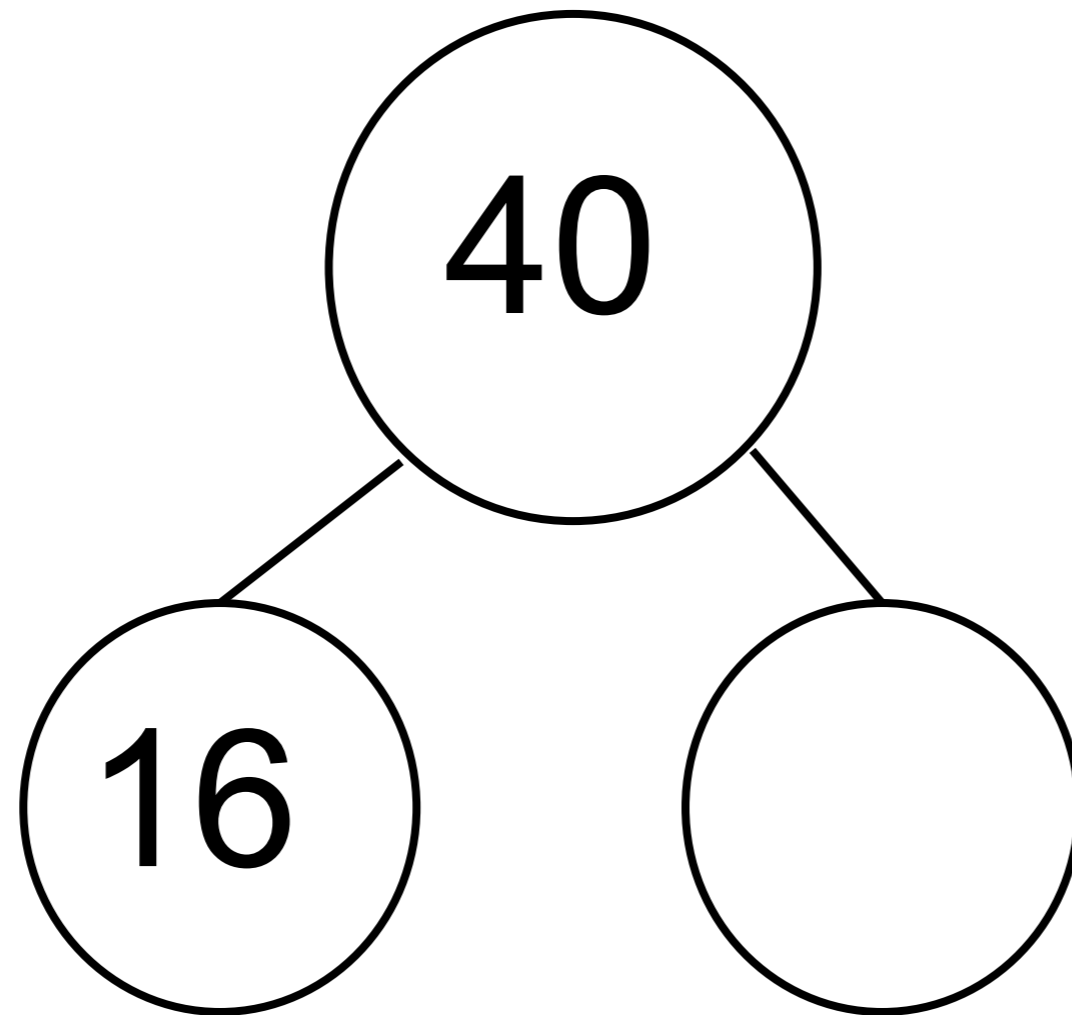
Decompose Multiples of 8



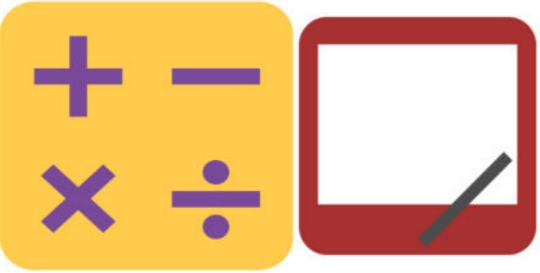
On your personal white board, fill in the unknown part in the number bond.



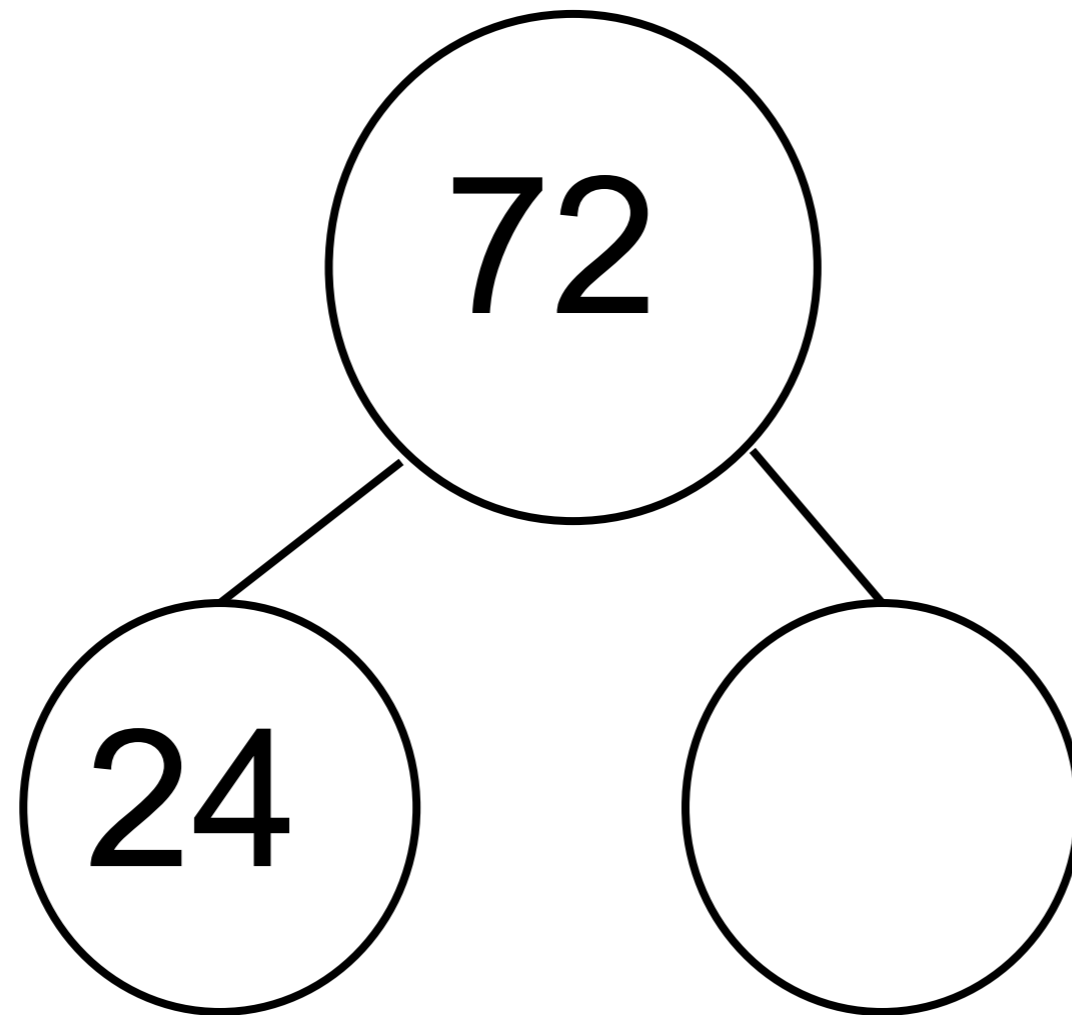
Decompose Multiples of 8



On your personal white board, fill in the unknown part in the number bond.



Decompose Multiples of 8



On your personal white board, fill in the unknown part in the number bond.

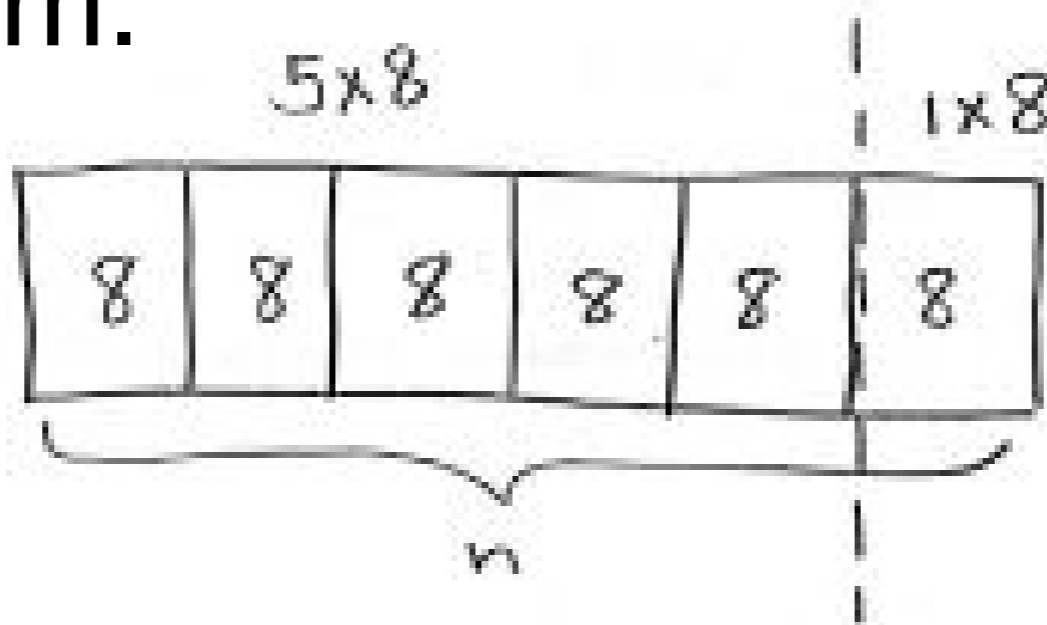
The logo consists of a green rounded square containing the white text 'RDW'.

Application Problem

Use the 5 plus something break apart and distribute strategy to solve 6×8 . Model with a tape diagram.

Application Problem

Use the 5 plus something break apart and distribute strategy to solve 6×8 . Model with a tape diagram.



$$(5 \times 8) + (1 \times 8)$$

$$40 + 8 = 48, n = 48$$

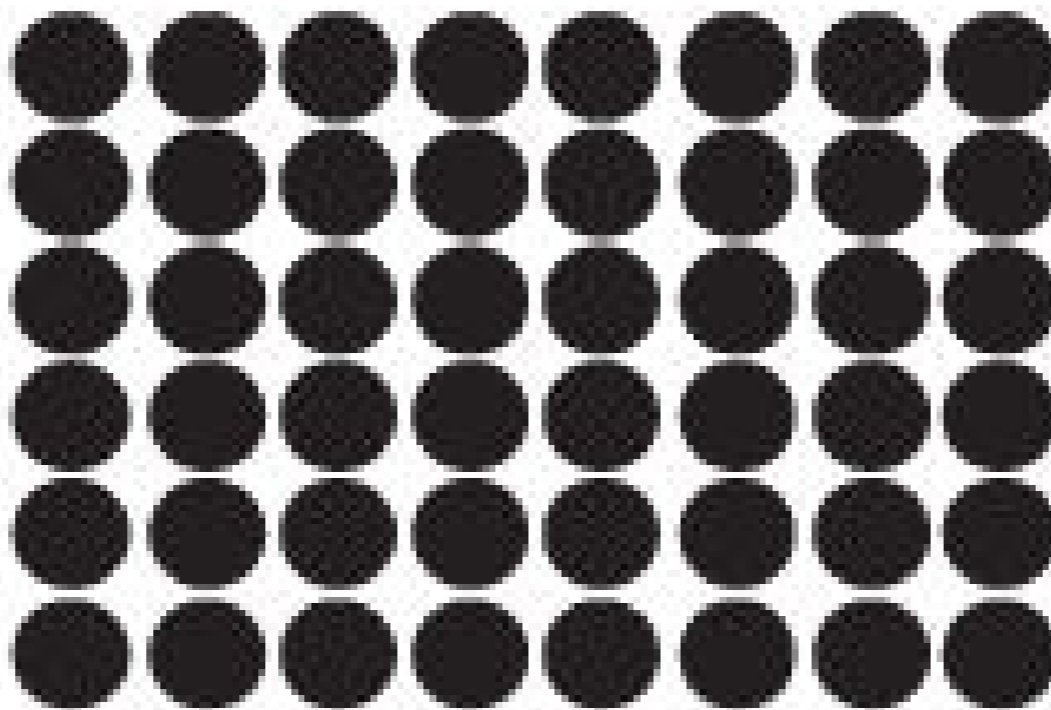
$$6 \times 8 = 48$$



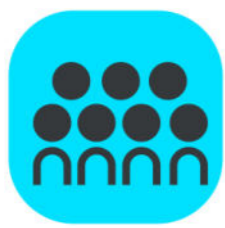
Concept Development

Problem 1: Multiply

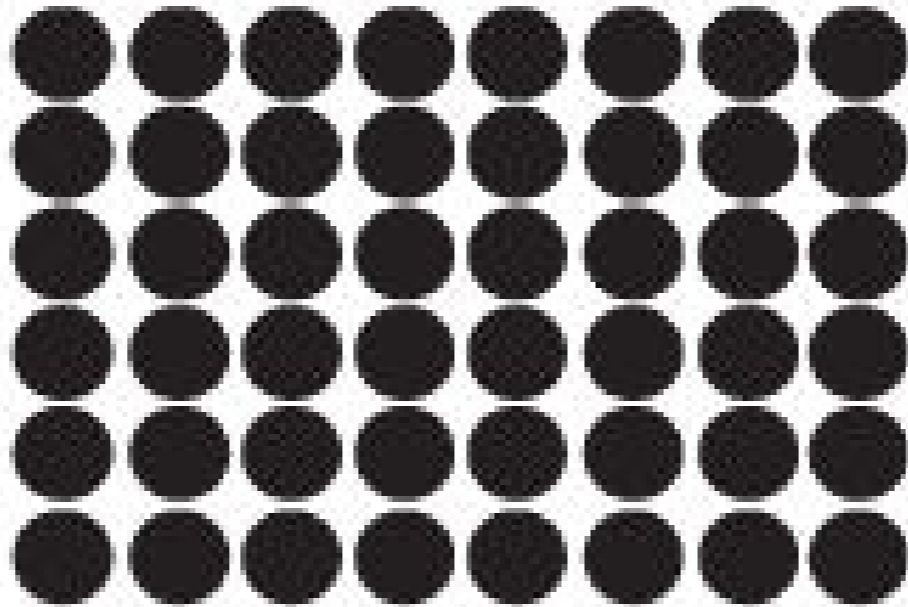
Let's try using the break apart and distribute strategy that way to solve 6×8 .



$$6 \times (5 + 3)$$

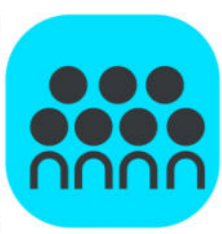


Concept Development

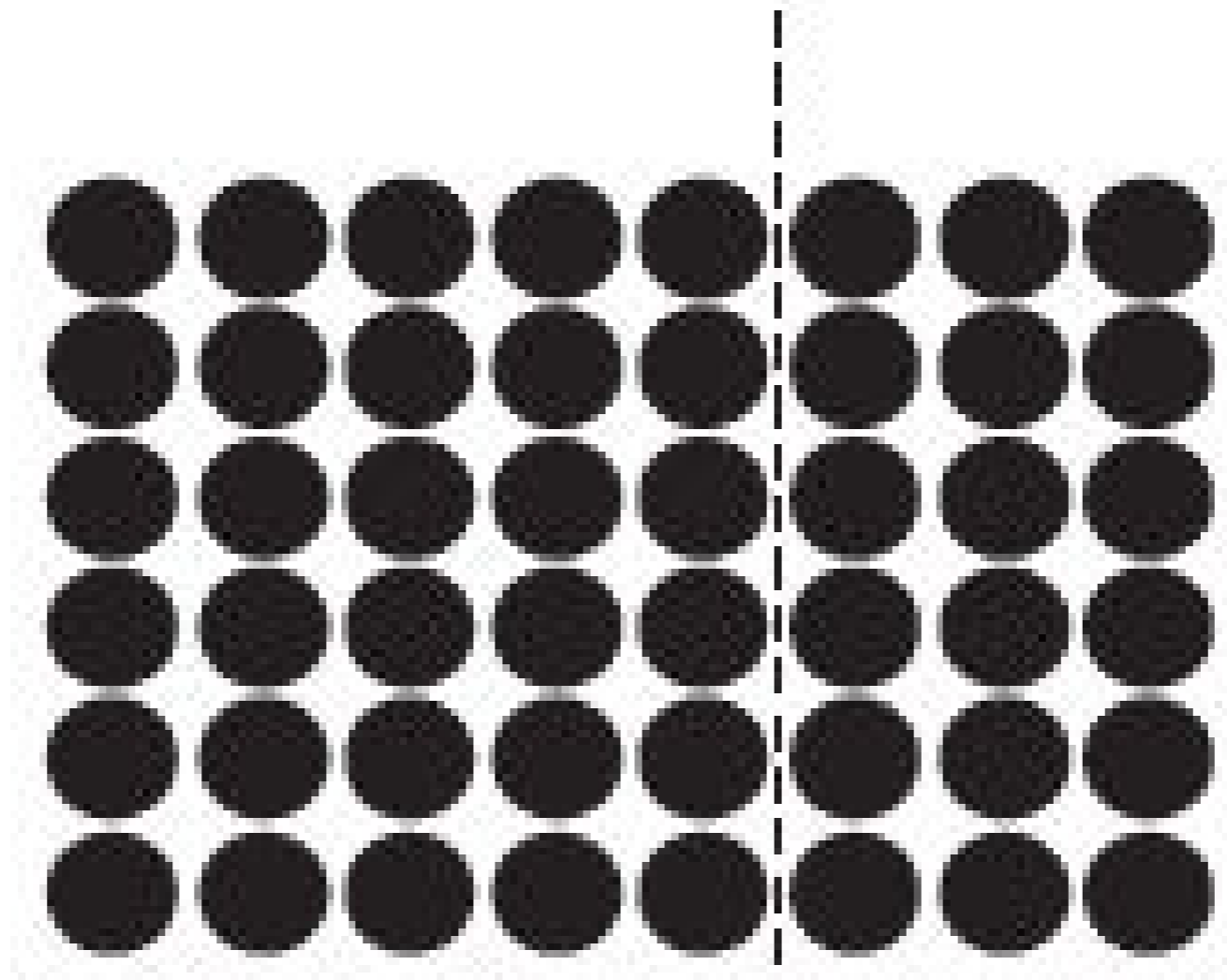


$$6 \times (5 + 3)$$

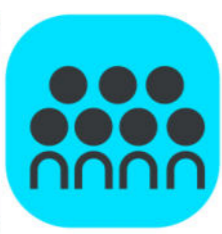
Is 8 represented by the number of columns or the number of rows in the array?



Concept Development



$$6 \times (5 + 3)$$

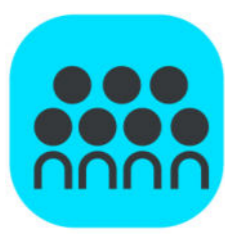


Concept Development

Problem 2: Divide

Let's use the break apart and distribute strategy to solve $64 \div 8$.

Draw a number bond with $64 \div 8$ as the whole.
Leave the parts empty.



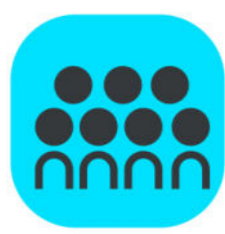
Concept Development

Let's think about how to break apart 64 into two numbers that are easier for us to divide.

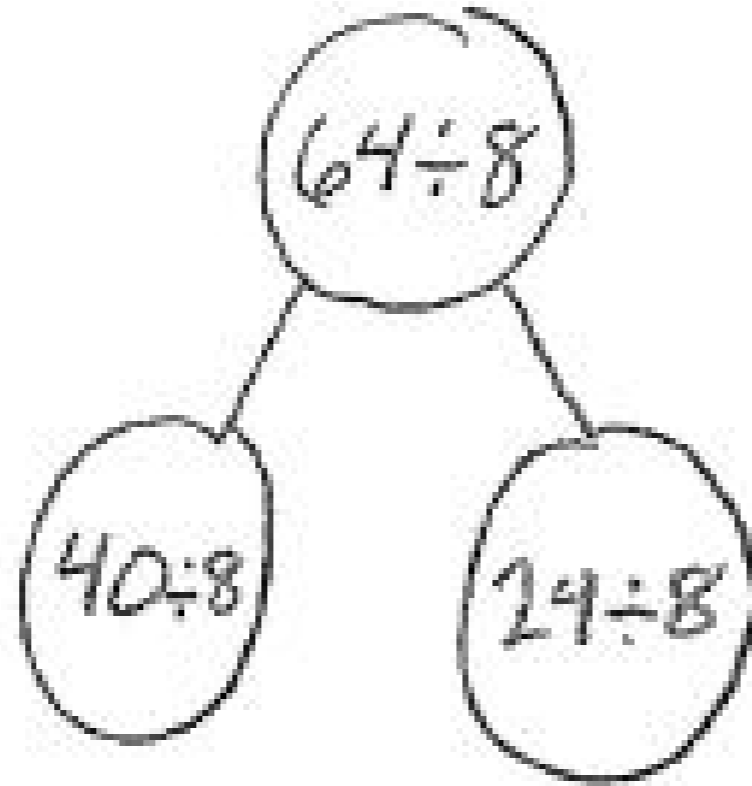


Make a list with your partner.

Remember that when we break apart 64, both numbers need to be divisible by 8.



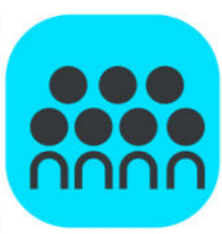
Concept Development



$$64 \div 8 = (40 \div 8) + (24 \div 8)$$

$$64 \div 8 = 5 + 3$$

$$64 \div 8 = 8$$

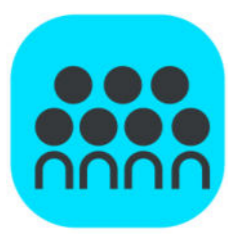


Concept Development

Problem 2: Divide

Let's use the break apart and distribute strategy to solve $96 \div 8 =$.

Draw a number bond with $96 \div 8$ as the whole.

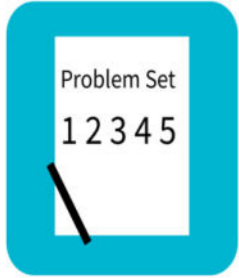


Concept Development

Problem 2: Divide

Let's use the break apart and distribute strategy to solve $54 \div 6 =$.

Draw a number bond with $54 \div 6$ as the whole.



Problem Set

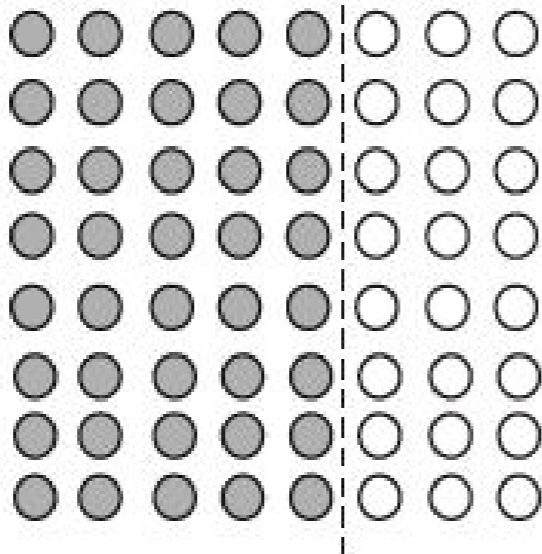
Name _____

Date _____

1. Label the arrays. Then, fill in the blanks below to make the statements true.

a. $8 \times 8 =$ _____

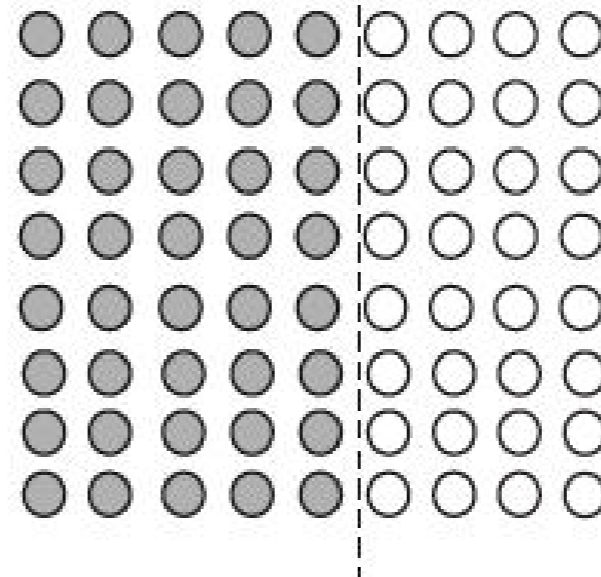
$(8 \times 5) =$ _____ $(8 \times \text{_____}) =$ _____



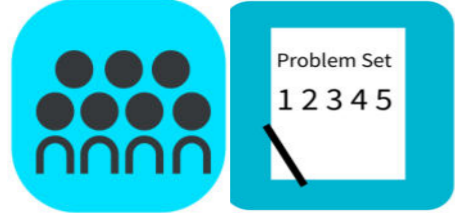
$$\begin{aligned}
 8 \times 8 &= 8 \times (5 + \text{_____}) \\
 &= (8 \times 5) + (8 \times \text{_____}) \\
 &= \underline{40} + \text{_____} \\
 &= \text{_____}
 \end{aligned}$$

b. $8 \times 9 = 9 \times 8 =$ _____

$(8 \times 5) =$ _____ $(8 \times \text{_____}) =$ _____



$$\begin{aligned}
 9 \times 8 &= 8 \times (5 + \text{_____}) \\
 &= (8 \times 5) + (8 \times \text{_____}) \\
 &= \underline{40} + \text{_____} \\
 &= \text{_____}
 \end{aligned}$$



Student Debrief



Lesson Objective: Use the distributive property as a strategy to multiply and divide.

Describe the steps you took to solve for the unknown numbers in Problem 1(a).

How did you know what division fact to write for the unknown part in Problem 3?

What multiplication sentence is used to solve Problem 4? How do you know?

In what ways does the break apart and distribute strategy remind you of the simplifying strategy we learned yesterday?

How did our math work today help make multiplication and division with larger numbers simpler?



Exit Ticket

Name _____

Date _____

Use the break apart and distribute strategy to solve the following problem. You may choose whether or not to draw an array.

$$7 \times 8 = \underline{\quad}$$