



Materials List

(S) Application Problems Sheet

(S) Personal white board

Eureka Math

3rd Grade
Module 3
Lesson 9

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.



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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.

The image shows a transition from a presentation viewer (Screen A) to an editor (Screen B). Screen A is a blue slide with the text "ReadyGEN™ in Action", "3rd Grade", "Unit 3, Module A", and "Lesson 1". A red box highlights the "pop-out" button in the top right corner of the browser window. A red arrow points from this button to Screen B. Screen B is the Google Slides editor interface for the file "Gr3(2) U3MAL1 Sample Lesson.pptx". The "File" menu is open, and the "Make a copy..." option is highlighted with a red box. A "Copy document" dialog box is open, showing the "Enter a new document name:" field with the text "Rename Your Presentation". The "OK" button is highlighted with a red box. The background of Screen B is the same blue slide as Screen A.

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



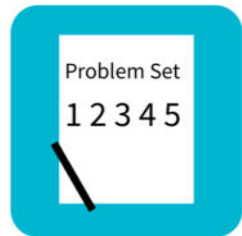
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



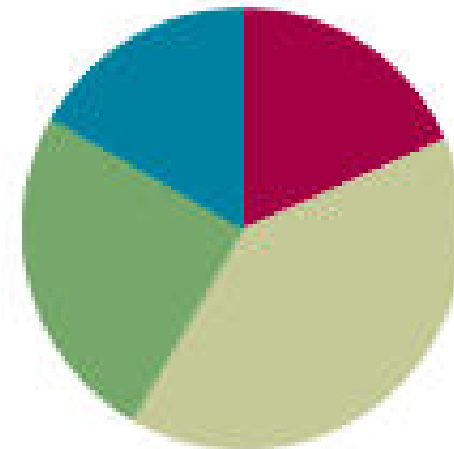
Small Group Time

Lesson 9

Objective: Model the associative property as a strategy to multiply.

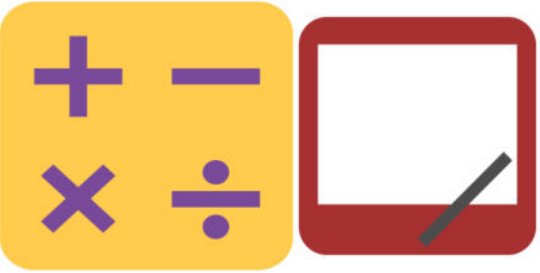
Suggested Lesson Structure

■ Fluency Practice	(11 minutes)
■ Application Problems	(15 minutes)
■ Concept Development	(24 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





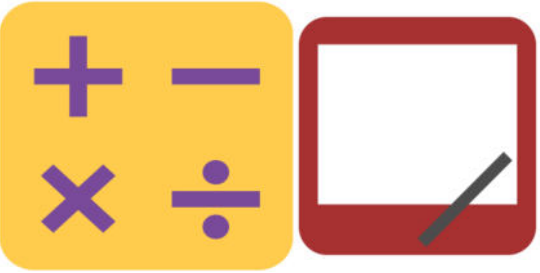
I can model the associative property as a strategy to multiply.



Divide by 6 and 7

Write $a \times 6 = 12$

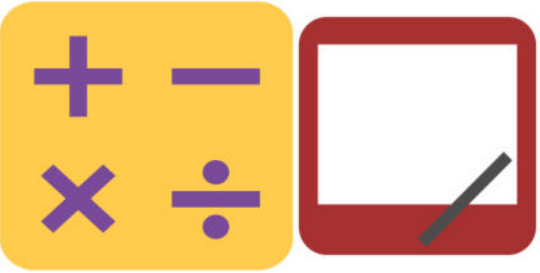
On your personal white board, write the value of a .



Divide by 6 and 7

Write $a \times 6 = 30$

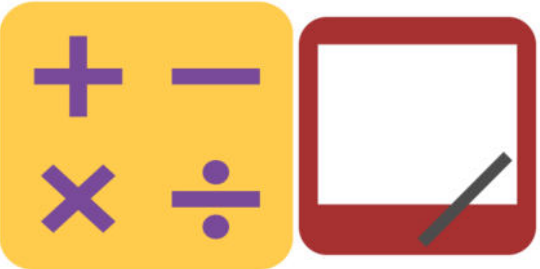
On your personal white board, write the value of a .



Divide by 6 and 7

Write $b \times 6 = 24$

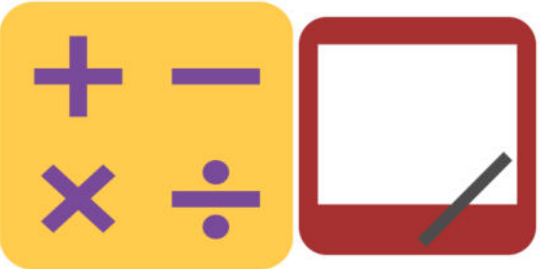
On your personal white board, write the value of b .



Divide by 6 and 7

Write $c \times 6 = 36$

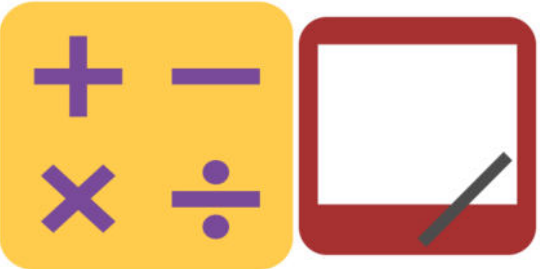
On your personal white board, write the value of c .



Divide by 6 and 7

Write $d \times 6 = 60$

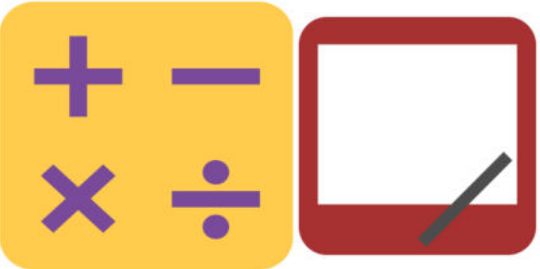
On your personal white board, write the value of d .



Divide by 6 and 7

Write $e \times 6 = 54$

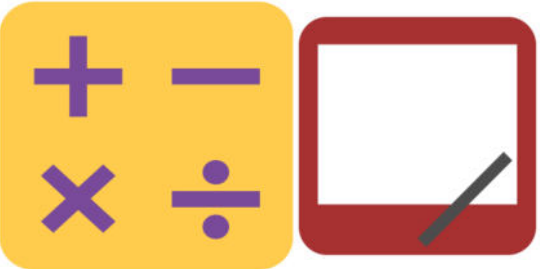
On your personal white board, write the value of e .



Divide by 6 and 7

Write $f \times 7 = 35$

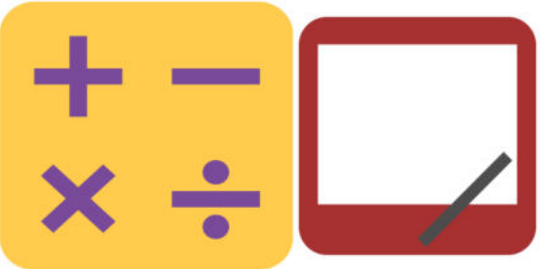
On your personal white board, write the value of f .



Divide by 6 and 7

Write $g \times 7 = 28$

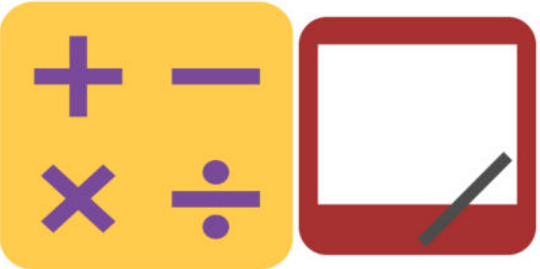
On your personal white board, write the value of g .



Divide by 6 and 7

Write $h \times 7 = 42$

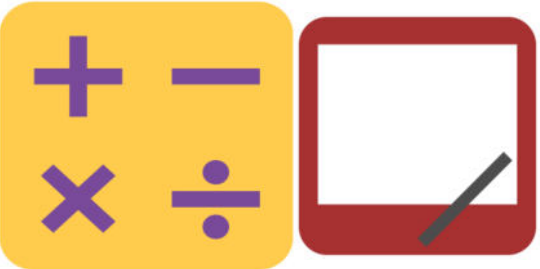
On your personal white board, write the value of h .



Divide by 6 and 7

Write $j \times 7 = 70$

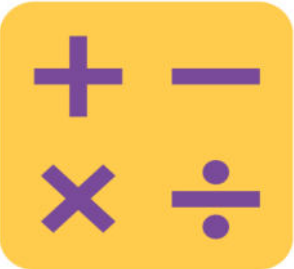
On your personal white board, write the value of j .



Divide by 6 and 7

Write $k \times 7 = 56$

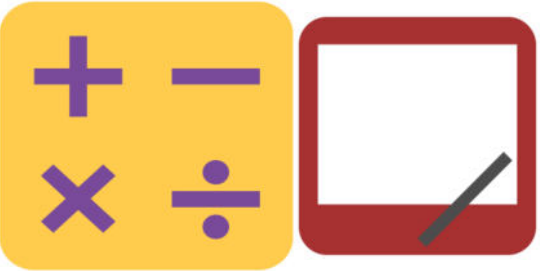
On your personal white board, write the value of k .



Group Counting

Eights to 80

Nines to 90

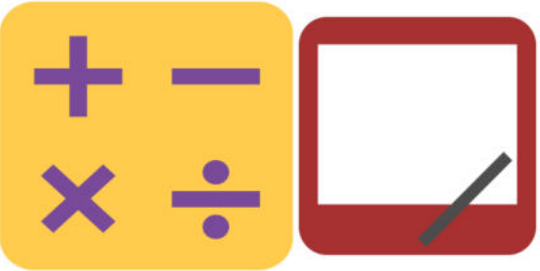


Write In the Parentheses

Write $10 - 5 + 3 = 8$

On your board, copy the equation.

Then, insert parentheses to make the statement true

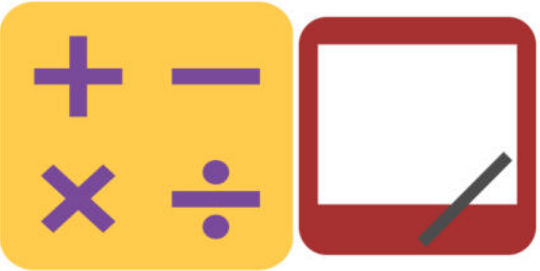


Write In the Parentheses

Write $10 - 5 + 3 = 2$

On your board, copy the equation.

Then, insert parentheses to make the statement true

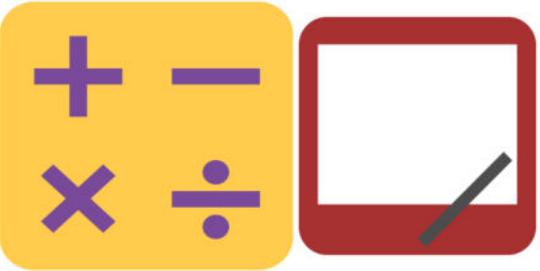


Write In the Parentheses

Write $10 = 20 - 7 + 3$

On your board, copy the equation.

Then, insert parentheses to make the statement true

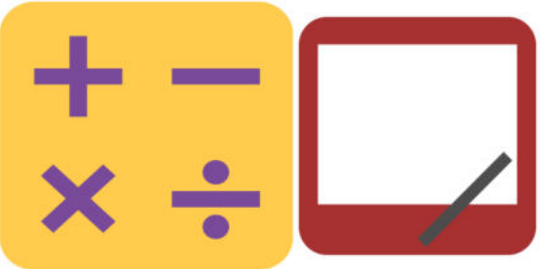


Write In the Parentheses

Write $16 = 20 - 7 + 3$

On your board, copy the equation.

Then, insert parentheses to make the statement true

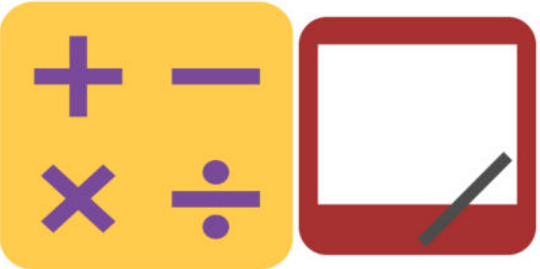


Write In the Parentheses

Write $8 + 2 \times 4 = 40$

On your board, copy the equation.

Then, insert parentheses to make the statement true

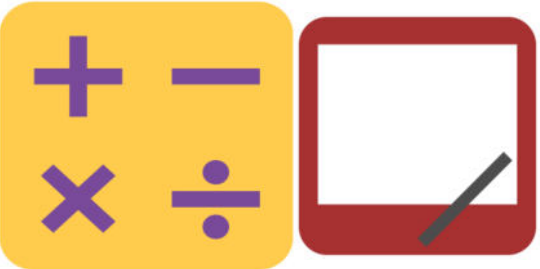


Write In the Parentheses

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On your board, copy the equation.

Then, insert parentheses to make the statement true

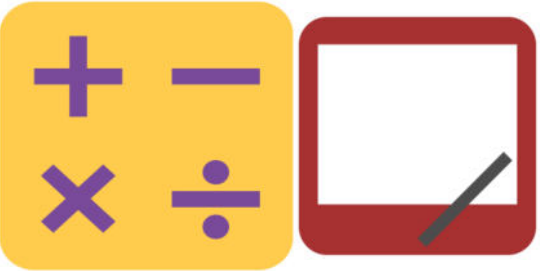


Write In the Parentheses

Write $12 = 12 \div 2 \times 2$

On your board, copy the equation.

Then, insert parentheses to make the statement true

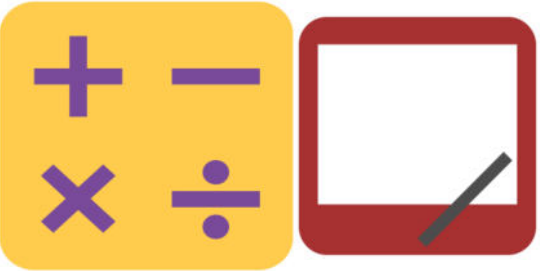


Write In the Parentheses

Write $3 = 12 \div 2 \times 2$

On your board, copy the equation.

Then, insert parentheses to make the statement true

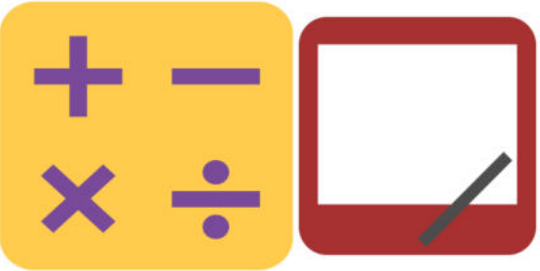


Write In the Parentheses

Write $10 = 35 - 5 \times 5$

On your board, copy the equation.

Then, insert parentheses to make the statement true



Write In the Parentheses

Write $20 - 10 \div 5 = 2$

On your board, copy the equation.

Then, insert parentheses to make the statement true



Application Problem

A STORY OF UNITS

Lesson 9 Application Problems

3•3

Name _____

Date _____

Solve the following pairs of problems. Circle the pairs where both problems have the same answer.

1. a. $7 + (6 + 4)$

b. $(7 + 6) + 4$

5. a. $(3 + 2) \times 5$

b. $3 + (2 \times 5)$

2. a. $(3 \times 2) \times 4$

b. $3 \times (2 \times 4)$

6. a. $(8 \div 2) \times 2$

b. $8 \div (2 \times 2)$

3. a. $(2 \times 1) \times 5$

b. $2 \times (1 \times 5)$

7. a. $(9 - 5) + 3$

b. $9 - (5 + 3)$



Concept Development

Write $16 \times 3 =$

This could be difficult to solve, work with your partner to list factors that have a product of 16. Write them on your personal white board.

4, 8, and 2 are much friendlier factors than 16.

Factors

$$4 \times 4 = 16$$

$$8 \times 2 = 16$$



Concept Development

$$(8 \times 2) \times 3$$

Why do you think I put 8×2 in parentheses?





Concept Development

$$15 \times 3 =$$

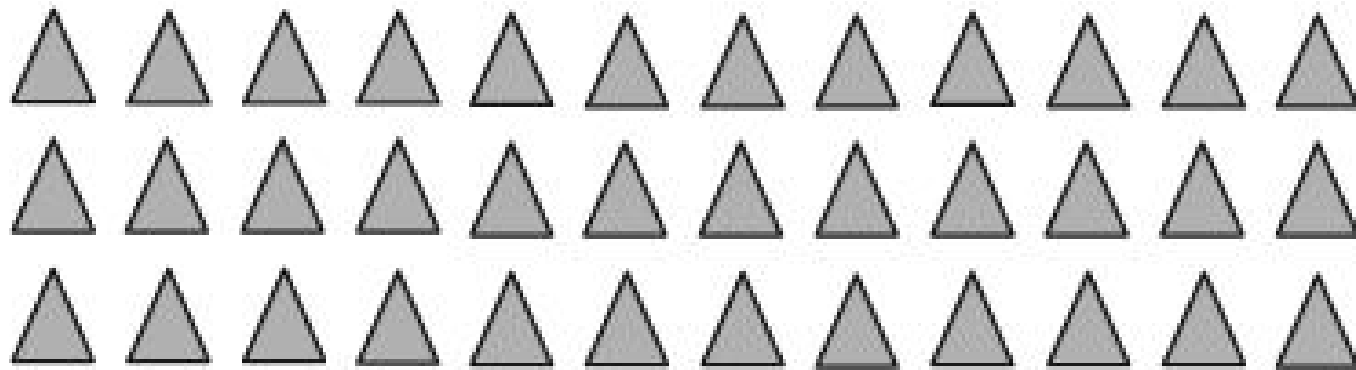


Problem Set

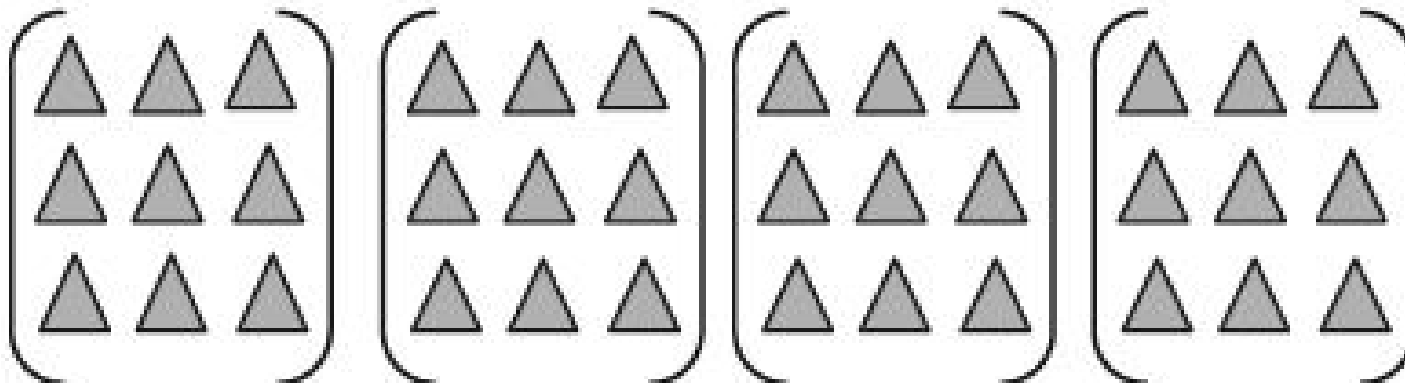
Name _____

Date _____

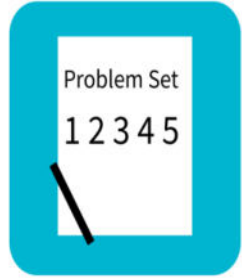
1. Use the array to complete the equation.



a. $3 \times 12 = \underline{\hspace{2cm}}$



b. $(3 \times 3) \times 4$
 $= \underline{\hspace{2cm}} \times 4$
 $= \underline{\hspace{2cm}}$



Student Debrief

Lesson Objective: Model the associative property as a strategy to multiply.

In Problem 1, how do the problems on the bottom simplify the problems on the top?

In Problem 3, how did Charlotte simplify?

How are the commutative property and this new strategy helpful for finding unknown, larger Facts?

How did the Application Problems relate to the lesson today?

Exit Ticket

Name _____

Date _____

Simplify to find the answer to 18×3 . Show your work, and explain your strategy.