



Materials List

(S) Multiply By 9 (6–10) (Pattern Sheet)

(S) Personal white board

Eureka Math

3rd Grade
Module 3
Lesson 15

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 displays two screenshots of a Google Slides presentation. The left screenshot, labeled 'Screen A', shows a slide with the text 'ReadyGEN™ in Action' and '3rd Grade Unit 3, Module A Lesson 1'. The right screenshot, labeled 'Screen B', shows the same slide but with the Google Slides interface overlaid. A red box highlights the 'pop-out' button in the top right corner of the browser window. A red arrow points to this button with the text '“pop-out”'. Another red box highlights the 'File' menu, and a third red box highlights the 'Make a copy...' option. A dialog box titled 'Copy document' is open, showing the 'Enter a new document name:' field with the text 'Rename Your Presentation' and 'OK' and 'Cancel' buttons.

Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

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



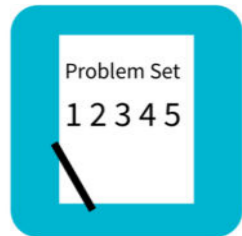
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



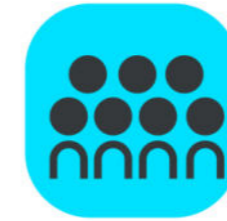
Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



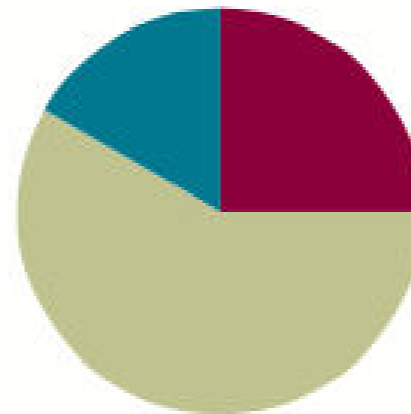
Small Group Time

Lesson 15

Objective: Interpret the unknown in multiplication and division to model and solve problems.

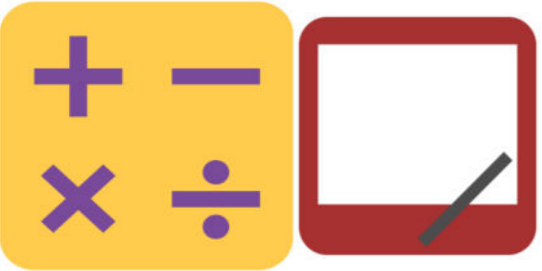
Suggested Lesson Structure

■ Fluency Practice	(15 minutes)
■ Concept Development	(35 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





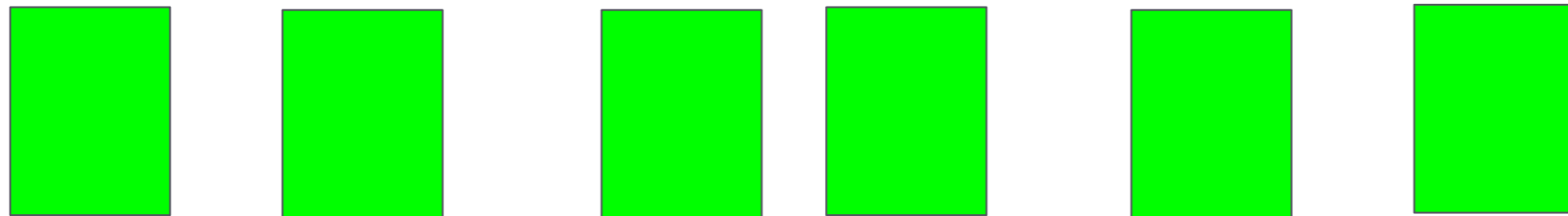
I can interpret the unknown in multiplication and division to model and solve problems.

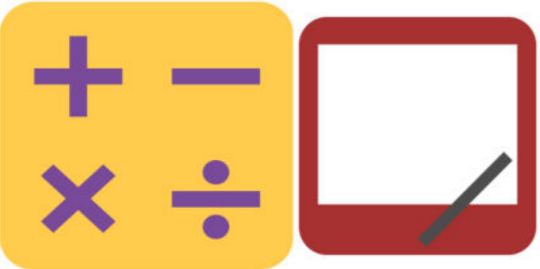


Multiply By 9

Write $6 \times 9 = \underline{\quad}$

Let's skip-count up by nine to solve.





Multiply By 9

Let's practice multiplying by 9. Be sure to work left to right across the page.

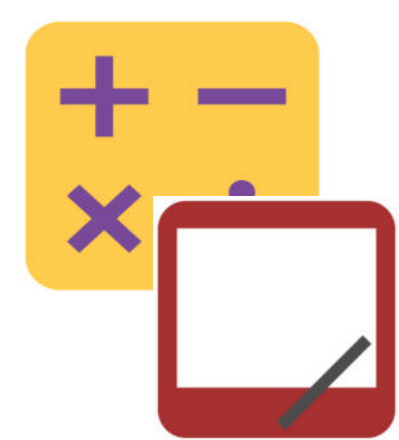
Multiply.

$$9 \times 1 = \underline{\quad} \quad 9 \times 2 = \underline{\quad} \quad 9 \times 3 = \underline{\quad} \quad 9 \times 4 = \underline{\quad}$$

$$9 \times 5 = \underline{\quad} \quad 9 \times 6 = \underline{\quad} \quad 9 \times 7 = \underline{\quad} \quad 9 \times 8 = \underline{\quad}$$

$$9 \times 9 = \underline{\quad} \quad 9 \times 10 = \underline{\quad} \quad 9 \times 5 = \underline{\quad} \quad 9 \times 6 = \underline{\quad}$$

$$9 \times 5 = \underline{\quad} \quad 9 \times 7 = \underline{\quad} \quad 9 \times 5 = \underline{\quad} \quad 9 \times 8 = \underline{\quad}$$



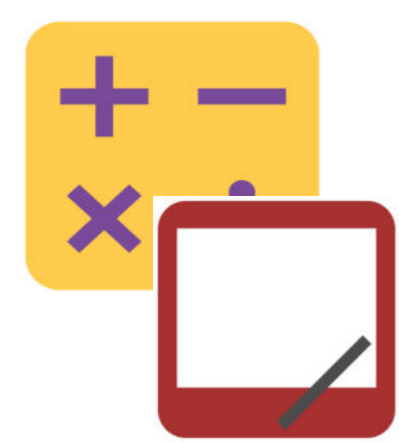
Group Counting

Sixes to 60

Sevens to 70

Eights to 80

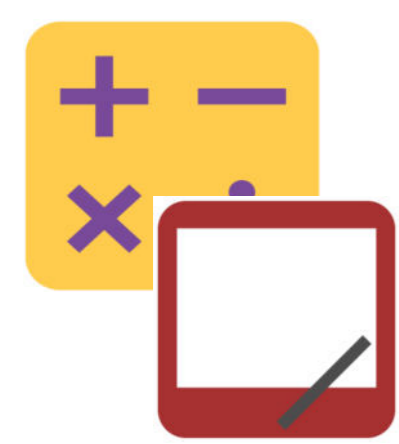
Divide by 9



Write $a \times 9 = 18$

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

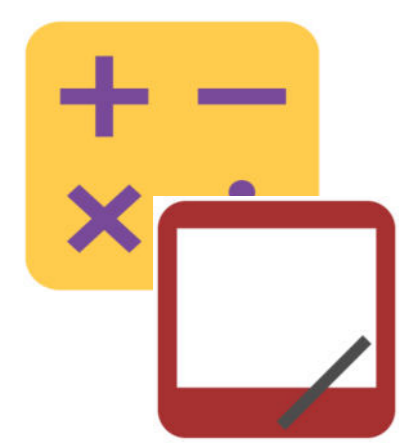
Divide by 9



Write $b \times 9 = 45$

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

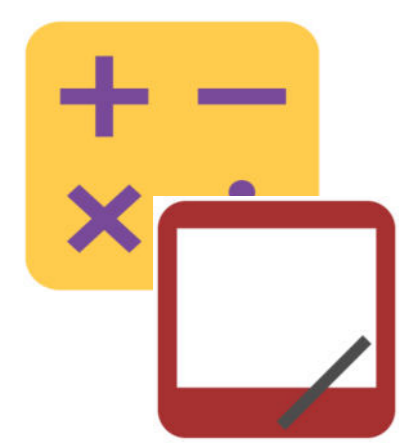
Divide by 9



Write $c \times 9 = 36$

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

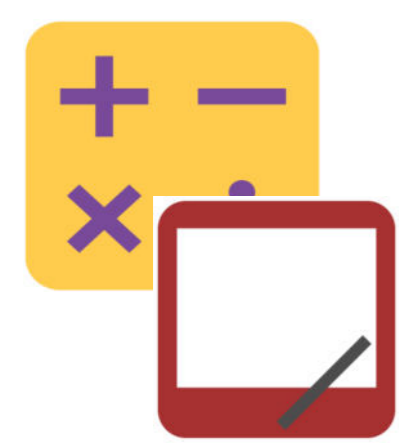
Divide by 9



Write $d \times 9 = 54$

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

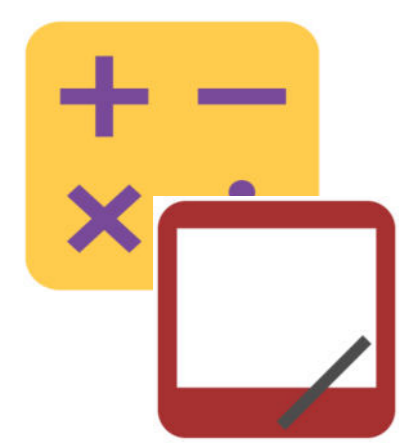
Divide by 9



Write $e \times 9 = 27$

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

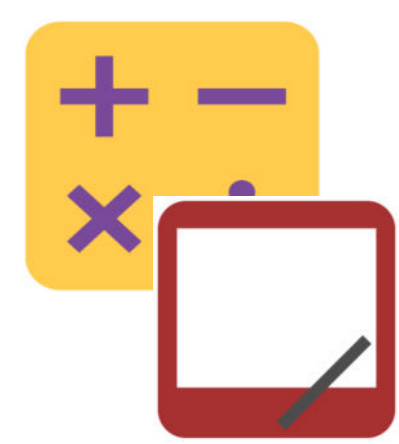
Divide by 9



Write $f \times 9 = 90$

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

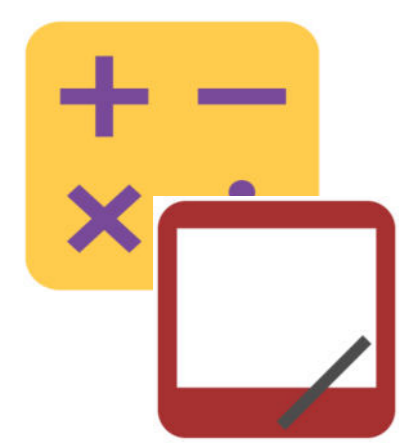
Divide by 9



Write $g \times 9 = 81$

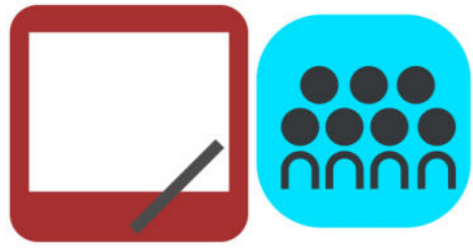
On your personal white board, write the value of g .

Divide by 9



Write $h \times 9 = 72$.

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



Concept Development

Problem 1: Interpret the unknown in multiplication.

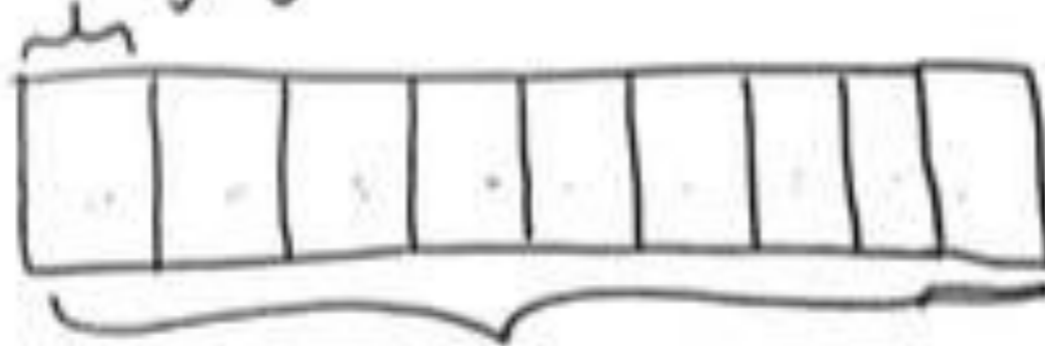
Write or project the following problem: Ada buys 9 packs of highlighters with 4 in each pack. After giving 1 highlighter to each classmate, she has 17 left. How many highlighters does Ada give away?



Model the problem. Then, tell your partner the steps you'll follow to solve it.

Concept Development

4 highlighters



9 packs

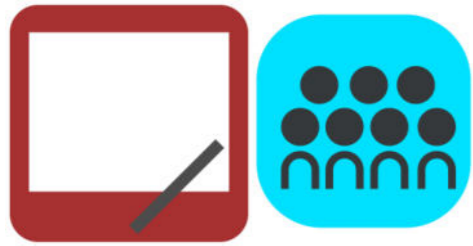
h total highlighters

$$9 \times 4 = h$$

$$h = 36$$

$$36 - 17 = g$$

$$g = 19$$



Concept Development

Problem 2: Interpret the unknown in division.

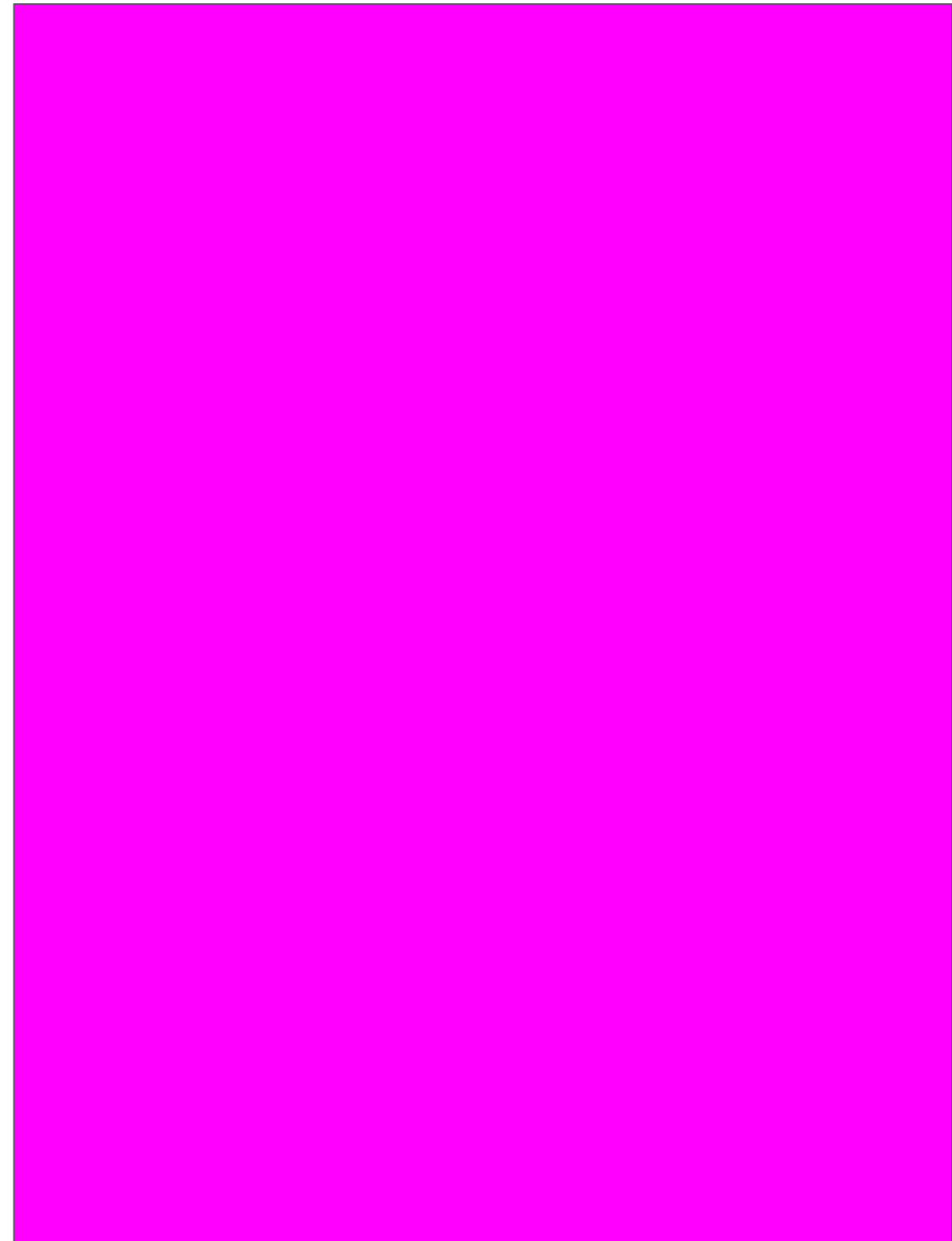
Eliza finds a bag of 72 marbles and runs to share them with 8 of her friends. She's so excited that she drops the bag and loses 18 marbles. How many marbles will Eliza and each of her friends get?

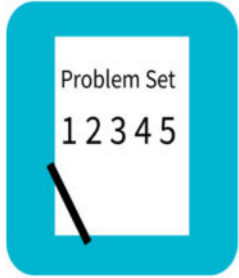
What should we do first, subtract or divide? Why?



Concept Development

Eliza finds a bag of 72 marbles and runs to share them with 8 of her friends. She's so excited that she drops the bag and loses 18 marbles. How many marbles will Eliza and each of her friends get?





Problem Set

A STORY OF UNITS

Lesson 15 Problem Set

3•3

Name _____

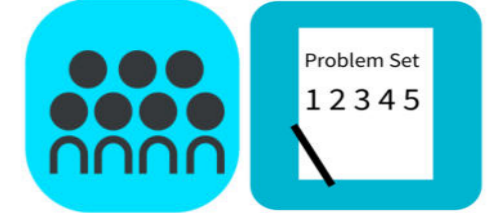
Date _____


Write an equation, and use a letter to represent the unknown for Problems 1–6.

1. Mrs. Parson gave each of her grandchildren \$9. She gave a total of \$36. How many grandchildren does Mrs. Parson have?

2. Shiva pours 27 liters of water equally into 9 containers. How many liters of water are in each container?

Student Debrief



 Lesson Objective: Interpret the unknown in multiplication and division to model and solve problems.

In your model for Problem 1, is the unknown the number of units or the size of each unit?

In Problem 3, how did you show what letter you used to represent the unknown and what it stood for?

How did you solve the large division fact in Problem 4?

What longer equation, including parentheses, can be used to solve Problem 6?



Exit Ticket

Name _____

Date _____

Use a letter to represent the unknown.

1. Mrs. Aquino pours 36 liters of water equally into 9 containers. How much water is in each container?