

# Eureka Math

## 3rd Grade Module 7 Lesson 33

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**Screen A**

ReadyGEN™ in Action

3<sup>rd</sup> Grade  
Unit 3, Module A  
Lesson 1

“pop-out”

**Screen B**

Gr3(2) U3MAL1 Sample Lesson.pptx

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ReadyGEN™ in Action

3<sup>rd</sup> 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

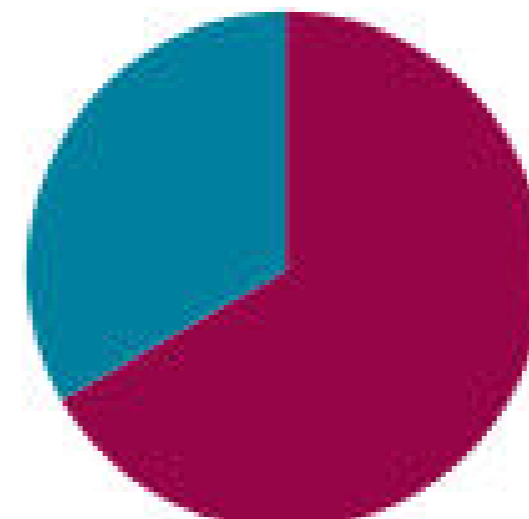
## Lesson 33

Objective: Solidify fluency with Grade 3 skills.

### Suggested Lesson Structure

■ Fluency Practice	(50 minutes)
■ Student Debrief	(10 minutes)
<b>Total Time</b>	<b>(60 minutes)</b>

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I can prove my skills with grade 3  
fluency.



# Fluency Practice

## Sprint: Mixed Division (10 minutes)

A STORY OF UNITS

Lesson 33 Sprint 3•7

Number Correct: \_\_\_\_\_

**A**

Mixed Division

1.	$4 \div 2 =$		23.	$16 \div 8 =$	
2.	$6 \div 2 =$		24.	$40 \div 8 =$	
3.	$10 \div 2 =$		25.	$32 \div 8 =$	
4.	$20 \div 2 =$		26.	$56 \div 8 =$	
5.	$10 \div 5 =$		27.	$18 \div 9 =$	
6.	$15 \div 5 =$		28.	$45 \div 9 =$	
7.	$25 \div 5 =$		29.	$36 \div 9 =$	
8.	$20 \div 5 =$		30.	$63 \div 9 =$	
9.	$8 \div 4 =$		31.	$64 \div 8 =$	
10.	$12 \div 4 =$		32.	$48 \div 8 =$	
11.	$20 \div 4 =$		33.	$81 \div 9 =$	
12.	$16 \div 4 =$		34.	$54 \div 9 =$	
13.	$6 \div 3 =$		35.	$24 \div 6 =$	
14.	$9 \div 3 =$		36.	$16 \div 2 =$	
15.	$15 \div 3 =$		37.	$28 \div 7 =$	
16.	$12 \div 3 =$		38.	$27 \div 3 =$	
17.	$60 \div 6 =$		39.	$24 \div 8 =$	
18.	$12 \div 6 =$		40.	$32 \div 4 =$	
19.	$18 \div 6 =$		41.	$27 \div 9 =$	
20.	$35 \div 7 =$		42.	$72 \div 9 =$	
21.	$14 \div 7 =$		43.	$56 \div 7 =$	
22.	$21 \div 7 =$		44.	$72 \div 8 =$	



# Fluency Practice

Multiply (4 minutes)

**Write each multiplication sentence.  
Then fill in with the missing quotient.**

$$4 \times 2 = \underline{\quad}$$

$$3 \times 4 = \underline{\quad}$$

$$4 \times 4 = \underline{\quad}$$

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

$$7 \times 6 = \underline{\quad}$$

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

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





# Mixed Review Games

Materials: (S) Fluency game materials (listed with each activity and included at the end of the lesson), Problem Set

- Play with a partner
- Take turns being teacher/student
- Record your games on the problem set

<p><b>Multiplication</b></p> <p>Materials: (S) Personal white board</p> <p>T: (Draw an array with 3 rows of 2.) Say the repeated addition sentence.</p> <p>S: <math>2 + 2 + 2 = 6</math>.</p> <p>T: (Write <math>3 \times \underline{\quad} = \underline{\quad}</math>.) On your personal white board, complete the multiplication sentence.</p> <p>S: (Write <math>3 \times 2 = 6</math>.)</p> <p>Repeat using the following ideas: 4 rows of 10, 3 rows of 4, 7 rows of 3, and 8 rows of 2. Or you can think of your own.</p>	<p><b>Equal Groups</b></p> <p>Materials: (S) Personal white board</p> <p>T: (Draw a picture with 2 groups of 4 circled.) Say the total as a repeated addition sentence.</p> <p>S: <math>4 + 4 = 8</math>.</p> <p>T: Write a division sentence that means the number of groups is unknown.</p> <p>S: (Write <math>8 \div 4 = 2</math>.)</p> <p>T: Below that division sentence, write a division sentence that means the number in each group is unknown.</p> <p>S: (Write <math>8 \div 2 = 4</math>.)</p> <p>Repeat using the following ideas: 5 groups of 3, 3 groups of 4, and 6 groups of 2. Or you can think of your own.</p>
<p><b>Commutative Multiplying</b></p> <p>Materials: (S) Personal white board</p> <p>T: (Draw an array with 3 rows of 2 dots.) How many rows of 2 do you see?</p> <p>S: 3 rows of 2.</p> <p>T: Write four different multiplication sentences for the picture.</p> <p>S: (Write <math>3 \times 2 = 6</math>, <math>2 \times 3 = 6</math>, <math>6 = 3 \times 2</math>, and <math>6 = 2 \times 3</math>.)</p> <p>Repeat using the following ideas: 3 rows of 5 and 4 rows of 3. Or you can think of your own.</p> <p>T: (Write <math>4 \times 2 = 2 \times \underline{\quad}</math>.) On your personal white board, fill in the blank.</p> <p>S: (Write <math>4 \times 2 = 2 \times 4</math>.)</p> <p>Repeat using the following ideas: <math>9 \times 5 = 5 \times \underline{\quad}</math> and <math>3 \times 6 = 6 \times \underline{\quad}</math>. Or you can think of your own.</p>	<p><b>Tape Diagrams</b></p> <p>Materials: (S) Personal white board</p> <p>T: (Draw a tape diagram with 5 equal units and 2 stars in the first unit.) What is the value of each unit?</p> <p>S: 2 stars.</p> <p>T: How many units are there?</p> <p>S: 5 units.</p> <p>T: Write a multiplication sentence for this tape diagram.</p> <p>S: (Write <math>5 \times 2 = 10</math>.)</p> <p>Repeat using the following ideas: <math>4 \times 3 = 12</math>, <math>8 \div 4 = 2</math>, and <math>15 \div 3 = 5</math>. Or you can think of your own.</p>



## Tens

Materials: (S) Place value cards, personal white board

Note: Place value cards can be made with index cards for personal practice.

T: (Write 7 tens = \_\_\_\_.) Say the number.

S: 70.

Repeat using the following ideas: 10 tens, 12 tens, 20 tens, 28 tens, 30 tens, and 37 tens. Or you can think of your own.

70

150

Place value cards

## Tens and Hundreds

Materials: (S) Personal white board

T: (Write  $9 + \underline{\quad} = 10$ .) Say the missing number.

S: 1.

T: (Write  $90 + \underline{\quad} = 100$ .) Say the missing number.

S: 10.

T: (Write  $91 + \underline{\quad} = 100$ .) Say the missing number.

S: 9.

T: (Write  $291 + \underline{\quad} = 300$ .) Say the missing number.

S: 9.

Repeat using the following ideas:

$1 + \underline{\quad} = 10$ ,  $10 + \underline{\quad} = 100$ ,  $11 + \underline{\quad} = 100$ ,  
 $211 + \underline{\quad} = 300$ ,  $8 + \underline{\quad} = 10$ ,  $80 + \underline{\quad} = 100$ ,  
 $85 + \underline{\quad} = 100$ , and  $385 + \underline{\quad} = 400$ .

Or you can think of your own.

## Make Twenty-Four Game

Materials: (S) Set of 6 cards per pair

Note: Students play in pairs. Each pair has a set of 6 cards, each with a number (2, 3, 4, 6, 8, and 12).

T: (Write  $\underline{\quad} \times \underline{\quad} = 24$ .) Spread the cards out in front of you.

T: Put your hands behind your back. I'll put a number in the first blank. When you know the number that belongs in the second blank, touch the card that shows the number. The first one of us to touch the card keeps it. Whoever has the most cards at the end wins. (Write 12 in the first blank.)

S: (Touch the 2 card. The first to touch it keeps the card.)

Repeat. This time, however, you might make 36 with the same cards plus 9 and 18.

## Write in the Parentheses

Materials: (S) Personal white board

T: (Write  $10 - 5 + 3 = 8$ .) On your personal white board, copy the equation. Then, insert parentheses to make the statement true.

S: (Write  $(10 - 5) + 3 = 8$ .)

Repeat using the following ideas:

$10 - 5 + 3 = 2$ ,  $10 = 20 - 7 + 3$ ,  $16 = 20 - 7 + 3$ ,  
 $8 + 2 \times 4 = 16$ ,  $8 + 2 \times 4 = 40$ ,  $12 = 12 \div 2 \times 2$ ,  $3 = 12 \div 2 \times 2$ ,  $10 = 35 - 5 \times 5$ , and  $20 - 10 \div 5 = 2$ .

Or you can think of your own.

### Round Three- and Four-Digit Numbers

Materials: (S) Personal white board

T: (Write  $87 \approx \underline{\quad}$ .) What is 87 rounded to the nearest ten?

S: 90.

Repeat using the following ideas: 97, 43, 643, 35, and 835. Or you can think of your own.

T: (Write  $253 \approx \underline{\quad}$ .) What is 253 rounded to the nearest hundred?

S: 300.

Repeat using the following ideas: 1,253, 735, 1,735, 850, 1,850, 952, 1,371, and 1,450. Or you can think of your own.

### Partition Shapes

Materials: (S) Personal white board

T: Draw a square.

S: (Draw a square.)

T: (Write  $\frac{1}{2}$ .) Estimate to equally partition the square into halves.

S: (Partition.)

Repeat using the following ideas: line  $\frac{1}{5}$ , circle  $\frac{1}{4}$ , circle  $\frac{1}{8}$ , bar  $\frac{1}{10}$ , and bar  $\frac{1}{6}$ .

Or you can think of your own.

### Write the Unit Fraction

Materials: (S) Personal white board

T: (Draw a shape with  $\frac{1}{2}$  shaded.) Write the unit fraction.

S: (Write  $\frac{1}{2}$ .)

Repeat using the following ideas:  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{6}$ ,  $\frac{1}{10}$ , and  $\frac{1}{5}$ .

Or you can think of your own.

### Greater or Less Than 1?

T: (Write  $\frac{1}{2}$ .) Greater or less than 1?

S: Less!

Repeat using the following ideas:  $\frac{3}{2}$ ,  $\frac{5}{4}$ ,  $\frac{3}{4}$ ,  $\frac{3}{7}$ ,  $\frac{5}{3}$ , and  $\frac{5}{2}$ .

Or you can think of your own.

### Draw Fractions from Part to Whole

Materials: (S) Personal white board

T: Draw 1 unit on your personal white board.

S: (Draw 1 unit.)

T: Label the unit  $\frac{1}{3}$ . Now, draw the whole that goes with your unit of  $\frac{1}{3}$ .

Repeat using the following ideas:  $\frac{1}{5}$ ,  $\frac{1}{6}$ ,  $\frac{1}{4}$ , and  $\frac{1}{2}$ .

Or you can think of your own.

### Draw Number Bonds of One

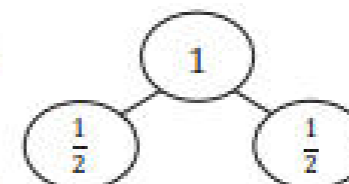
Materials: (S) Personal white board

T: Draw a number bond to partition one into halves.

S: (Draw.)

T: How many copies of 1 half did you draw to make one?

S: 2 copies.



Repeat using the following ideas: thirds, fourths, fifths, sixths, sevenths, etc. Or you can think of your own.

# Problem Set (10 mins.)

Name \_\_\_\_\_

Date \_\_\_\_\_

List some games we played today in the chart below. Place a check mark in the box that shows how you felt about your level of fluency as you played each activity. Check off the last column if you would like to practice this activity over the summer.

Activity	I still need some practice with my facts.	I am fluent.	I would like to put this in my summer activity book.
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

# Debrief

Any combination of the questions below may be used to lead the discussion.

- What is something you did today that you could not do before you came to the third grade?
- Are there any activities that were still a little challenging? What might you do to get better?
- Which of these games might be fun to play over the summer so you can keep your math skills sharp? Who will you teach to play with you?



# Exit Ticket (3 minutes)

A STORY OF UNITS

Lesson 33 Exit Ticket

3•7

Name \_\_\_\_\_

Date \_\_\_\_\_

What fluency activity helped you the most in becoming fluent with your multiplication and division facts this year? Write three or four sentences to explain what made it so useful.