

Eureka Math

3rd Grade Module 3 Lesson 21

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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



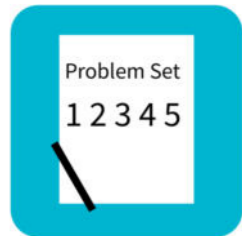
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



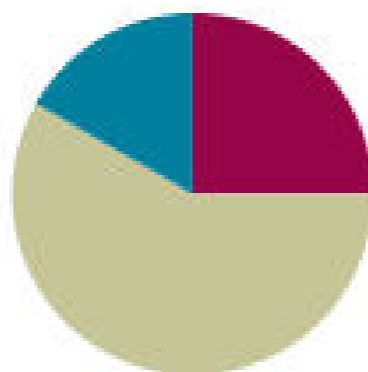
Small Group Time

Lesson 21

Objective: Solve two-step word problems involving multiplying single-digit factors and multiples of 10.

Suggested Lesson Structure

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



NOTES ON
STANDARDS
ALIGNMENT



I can solve two-step word problems involving multiplying single-digit factors and multiples of 10.



Fluency Practice

Sprint - Multiply by Multiples of 10



Fluency Practice

Group Counting

**Count forward and backward as I indicate
with pointing my finger, by...**

Sixes to 60



Fluency Practice

Group Counting

**Count forward and backward as I indicate
with pointing my finger, by...**

Sevens to 70

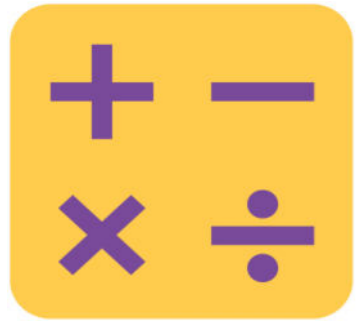


Fluency Practice

Group Counting

**Count forward and backward as I indicate
with pointing my finger, by...**

Eights to 80

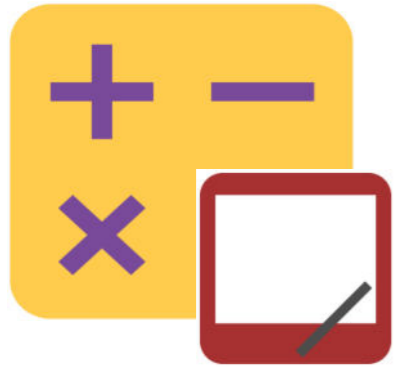


Fluency Practice

Group Counting

**Count forward and backward as I indicate
with pointing my finger, by...**

Nines to 90

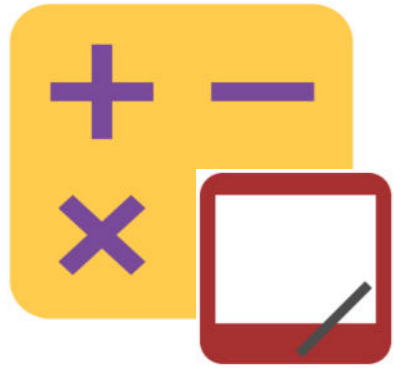


Fluency Practice

Write in the Parentheses

$$2 \times 40 = 2 \times 4 \times 10$$

What is 2×40 ?



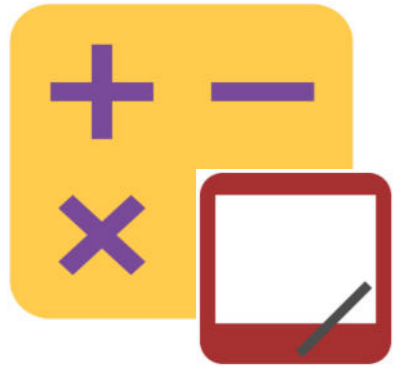
Fluency Practice

Write in the Parentheses

$$2 \times 40 = 2 \times 4 \times 10$$

What is 2×40 ?

80

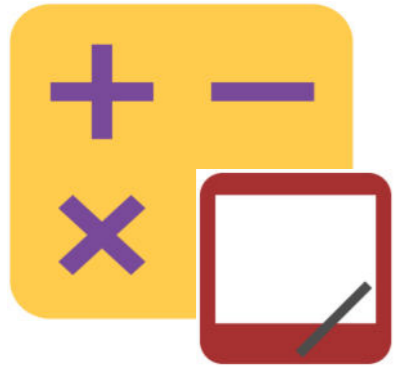


Fluency Practice

Write in the Parentheses

$$2 \times 40 = 2 \times 4 \times 10$$

On your personal white board, copy the number sentence. Then, write in parentheses and solve.



Fluency Practice

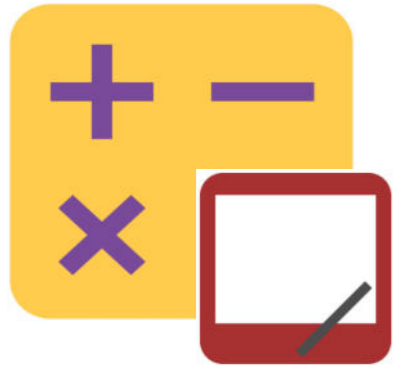
Write in the Parentheses

$$2 \times 40 = 2 \times 4 \times 10$$

$$2 \times 40 = (2 \times 4) \times 10$$

$$2 \times 40 = 8 \times 10$$

$$2 \times 40 = 80$$

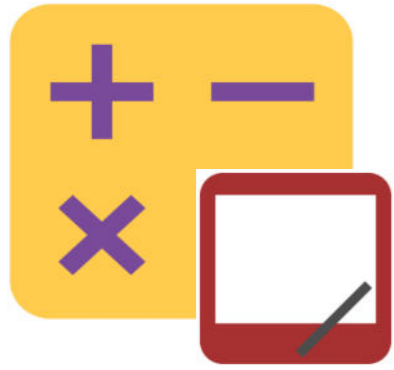


Fluency Practice

Write in the Parentheses

$$3 \times 30 = 3 \times 3 \times 10$$

What is 3×30 ?



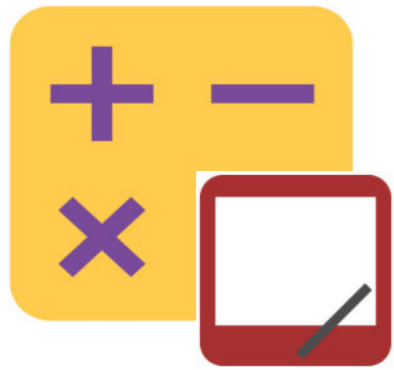
Fluency Practice

Write in the Parentheses

$$3 \times 30 = 3 \times 3 \times 10$$

What is 3×30 ?

90

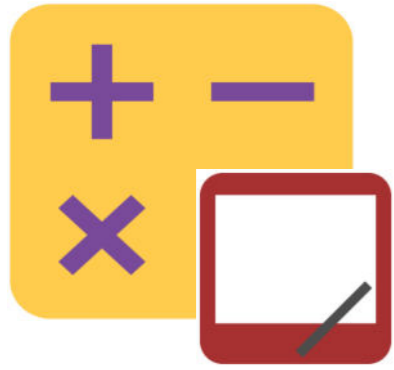


Fluency Practice

Write in the Parentheses

$$3 \times 30 = 3 \times 3 \times 10$$

On your personal white board, copy the number sentence. Then, write in parentheses and solve.



Fluency Practice

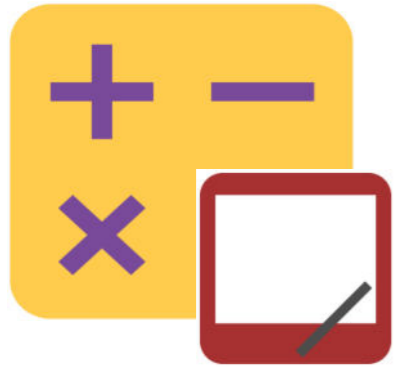
Write in the Parentheses

$$3 \times 30 = 3 \times 3 \times 10$$

$$3 \times 30 = (3 \times 3) \times 10$$

$$3 \times 30 = 9 \times 10$$

$$3 \times 30 = 90$$

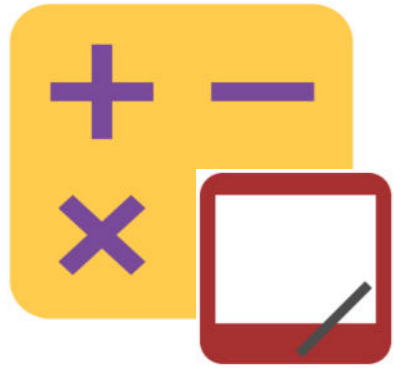


Fluency Practice

Write in the Parentheses

$$2 \times 50 = 2 \times 5 \times 10$$

What is 2×50 ?



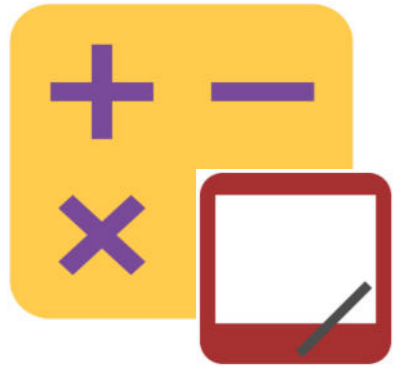
Fluency Practice

Write in the Parentheses

$$2 \times 50 = 2 \times 5 \times 10$$

What is 2×50 ?

100

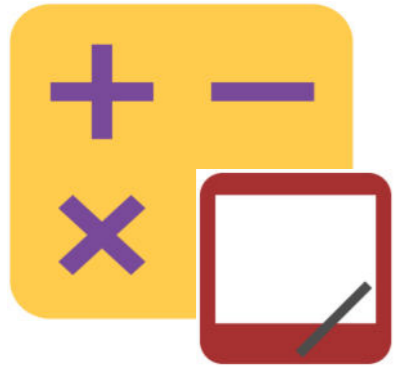


Fluency Practice

Write in the Parentheses

$$2 \times 50 = 2 \times 5 \times 10$$

On your personal white board, copy the number sentence. Then, write in parentheses and solve.



Fluency Practice

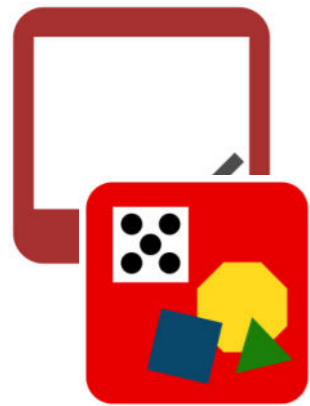
Write in the Parentheses

$$2 \times 50 = 2 \times 5 \times 10$$

$$2 \times 50 = (2 \times 5) \times 10$$

$$2 \times 50 = 10 \times 10$$

$$2 \times 50 = 100$$

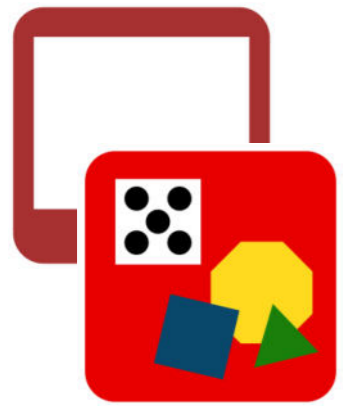


Concept Development

Materials

(T) Stopwatch, multiples of 10 multiplication cards

(S) Personal white boards



Concept Development

Place one card face down on each student's desk. At the prompt of "Go!," each student solves his or her problem. Students then line up as a class, ordering their products from least to greatest. Instruct students to complete these tasks silently and quickly. Let them know that they will be timed and that extra time will be added as a penalty if they are too noisy.



Concept Development

It took you 4 minutes and 13 seconds to find the products and order them from least to greatest. How do we find the total number of seconds it took to complete this activity?



Concept Development

Add the total seconds in 4 minutes to 13 seconds. We need to know how many seconds are in 1 minute first.



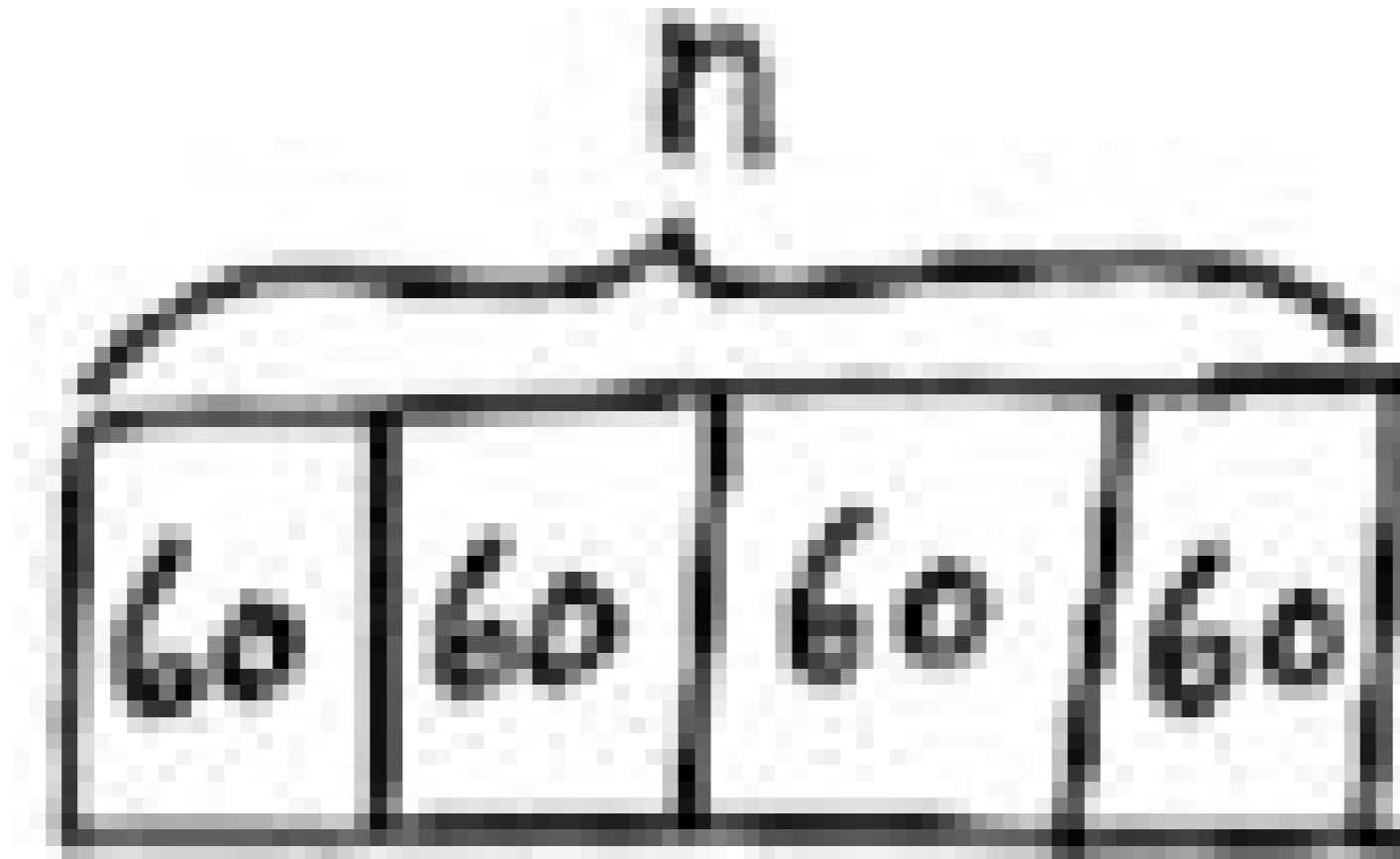
Concept Development

Add the total seconds in 4 minutes to 13 seconds. We need to know how many seconds are in 1 minute first.

There are 60 seconds in 1 minute. Draw and label a tape diagram to show the total number of seconds in 4 minutes. Label the unknown as n . Then, check with a partner.



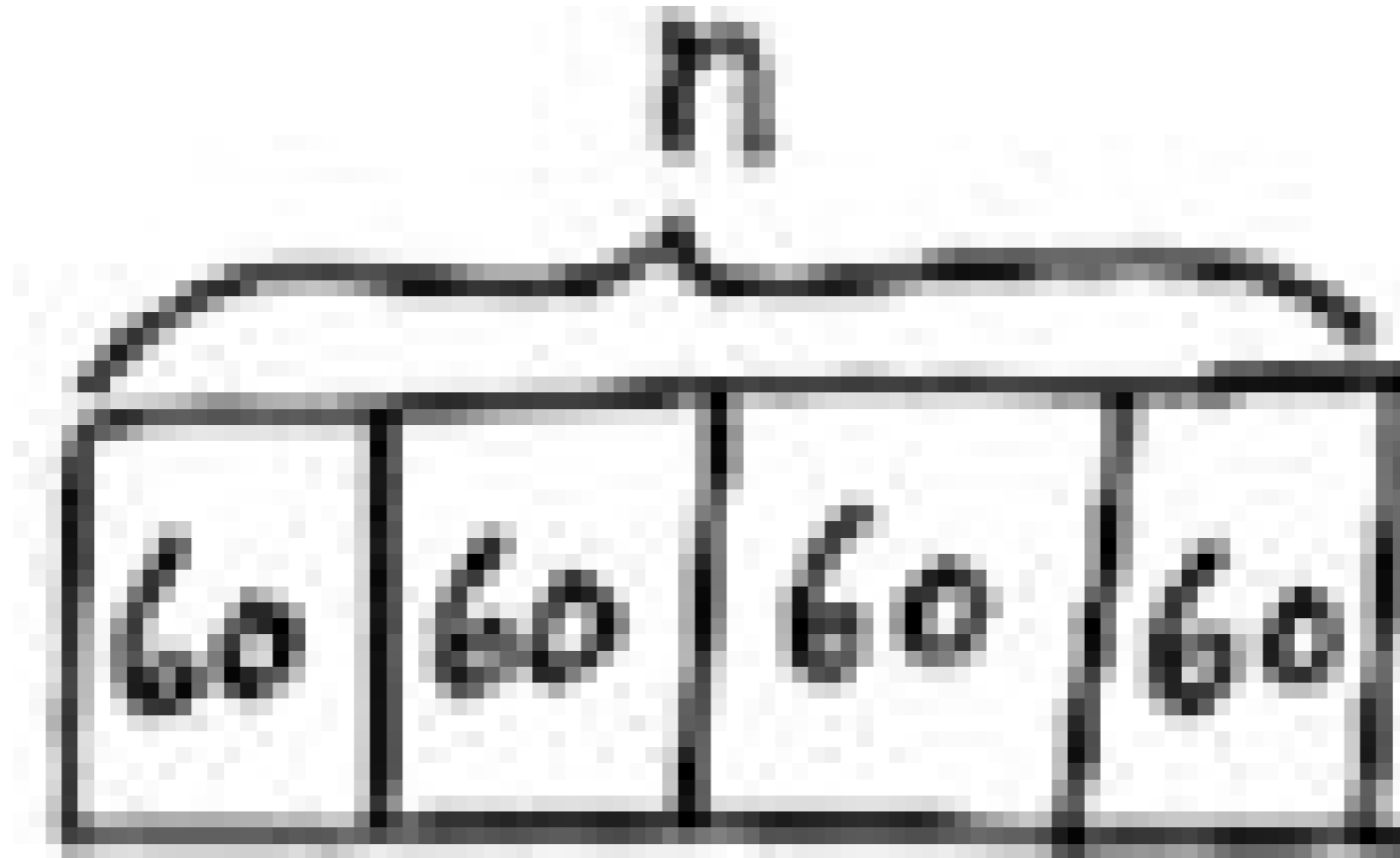
Concept Development



Now write an equation and solve.



Concept Development



$$4 \times 60 = n$$

$$n = 240$$



Concept Development

Discuss with a partner the strategy you used to solve 4×60 .



Concept Development

Four minutes is equal to how many seconds?



Concept Development

Four minutes is equal to how many seconds?

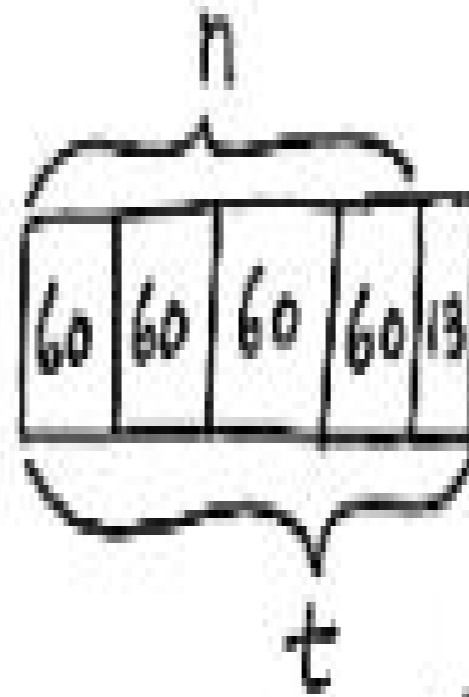
240

Whisper the next step to your partner.



Concept Development

Add a unit of 13 to your diagram and label the total number of seconds using t for the unknown. Then, solve for t . How many seconds did it take you to complete the activity?



$$4 \times 60 = n$$

$$n = 240$$

$$240 + 13 = t$$

$$t = 253$$

There are 253 seconds
in 4 minutes and 13 seconds.

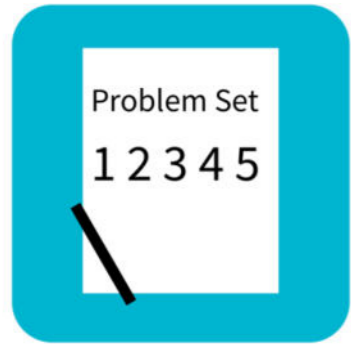


Concept Development

Each day Andrea does 25 squats to warm up for gymnastics practice and 15 squats to cool down after practice. How many squats does she do in all when she practices Monday through Friday?

Benny gets \$5 a week for allowance. After saving his money for 20 weeks, how much more does Benny need to buy a bike that costs \$108?

Genevieve makes 43 bracelets. She gives 13 bracelets away as gifts and sells the rest for \$4 each. How much money does Genevieve make in all?



Problem Set

Name _____

Date _____

Use the RDW process to solve each problem. Use a letter to represent the unknown.

1. There are 60 seconds in 1 minute. Use a tape diagram to find the total number of seconds in 5 minutes and 45 seconds.

Debrief

In Problem 2, how many more months will Lupe need to save so she has enough to buy the art supplies? How do you know?

In Problem 3, how many dollars does Brad earn?(Consider prompting students by asking how many cents are in 1 dollar.)

Discuss the second step of Problem 4 with a partner. How was this different than the other problems? Explain how you could solve it with multiplication.

Explain the three unknowns you needed to find to solve Problem 5.

Explain to a partner how you solved Problem 6.

Explain how you could have used the multiplying by 10 strategy to help solve this problem.

Exit Ticket

Name _____

Date _____

Use the RDW process to solve. Use a letter to represent the unknown.

Frederick buys a can of 3 tennis balls. The empty can weighs 20 grams, and each tennis ball weighs 60 grams. What is the total weight of the can with 3 tennis balls?