Eureka Math

4th Grade
Module 7
Lesson 16

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.

Icons

RDW — Read, Draw, Write

Learning Target

Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share

Whole Class

Individual

Partner

Small Group
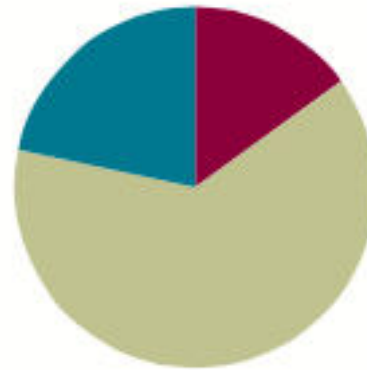
Small Group Time

Lesson 16

Objective: Create and determine the area of composite figures.

Suggested Lesson Structure

■	Fluency Practice	(9 minutes)
■	Concept Development	(38 minutes)
■	Student Debrief	(13 minutes)
	Total Time	**(60 minutes)**

Create and determine the area of composite figures.

Core Fluency Practice

Grade 4 Core Fluency Differentiated Practice Sets (4 minutes)

Materials: (S) Core Fluency Practice Sets (Lesson 2 Core Fluency Practice Sets)

Note: During Module 7, each day's Fluency Practice may include an opportunity for mastery of the addition and subtraction algorithm by means of the Core Fluency Practice Sets. The process is detailed and materials are provided in Lesson 2.
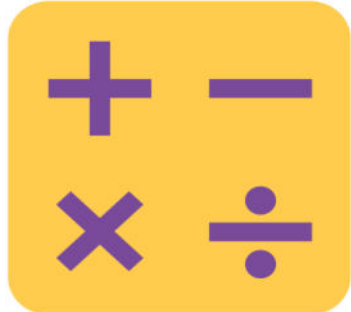
Find the Area

46 cm

23 cm

Decompose the width into tens and ones.

20 centimeters and 3 centimeters

Decompose the length into tens and ones.

40 centimeters and 6 centimeters

Find the Area

40 cm   6 cm

800 cm	120 cm	20 cm
120 cm	18 cm	3 cm

Solve for each smaller area.

Solve for the total area..   *1,058 square centimeters*

Concept Development is the Problem Set

Name _____   Date _____

Work with your partner to create each floor plan on a separate piece of paper, as described below.

You should use a protractor and a ruler to create each floor plan and be sure each rectangle you create has two sets of parallel lines and four right angles.

Be sure to label each part of your model with the correct measurement.

1. The bedroom in Samantha's dollhouse is a rectangle 26 centimeters long and 15 centimeters wide. It has a rectangular bed that is 9 centimeters long and 6 centimeters wide. The two dressers in the room are each 2 centimeters wide. One measures 7 centimeters long, and the other measures 4 centimeters long. Create a floor plan of the bedroom containing the bed and dressers. Find the area of the open floor space in the bedroom after the furniture is in place.

Exit Ticket: Reflection

Name _____   Date _____

In the table below are skills that you learned in Grade 4 and that you used to complete today's lesson. These skills were originally introduced in earlier grades, and you will continue to work on them as you go on to later grades. Choose three topics from the chart, and explain how you think you might build on and use them in Grade 5.

Multiply 2-digit by 2-digit numbers	Use the area formula to find the area of composite figures	Create composite figures from a set of specifications
Subtract multi-digit numbers	Add multi-digit numbers	Solve multi-step word problems
Construct parallel and perpendicular lines	Measure and construct 90° angles	Measure in centimeters

Debrief

- Share your Reflection with a partner. After you have both shared, choose one more skill from the set you both notice you used today, and share your experience and progress with using that skill.

- What skills from your previous work with angles and lines did you need to use today to complete the problems?

- What occupations do you think might use these ideas on a regular basis?