

# Eureka Math

## 4th Grade Module 7 Lesson 15

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Directions for customizing presentations are available on the next slide.



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# Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



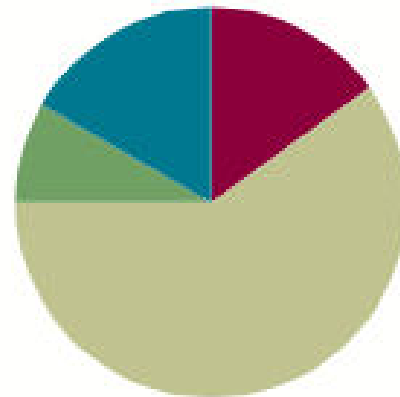
Small Group Time

## Lesson 15

**Objective:** Create and determine the area of composite figures.

### Suggested Lesson Structure

■ Fluency Practice	(9 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(36 minutes)
■ Student Debrief	(10 minutes)
<b>Total Time</b>	<b>(60 minutes)</b>



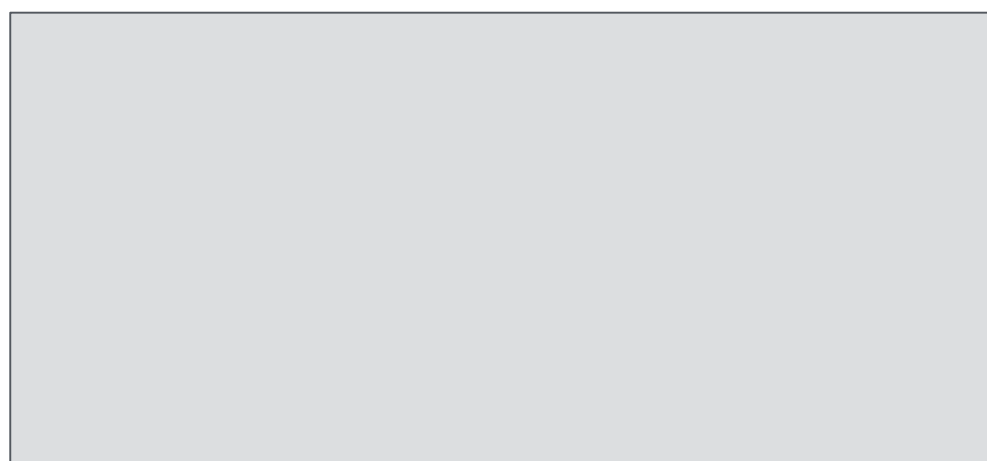


Create and determine the area of composite figures.



# Find the Area

10 cm

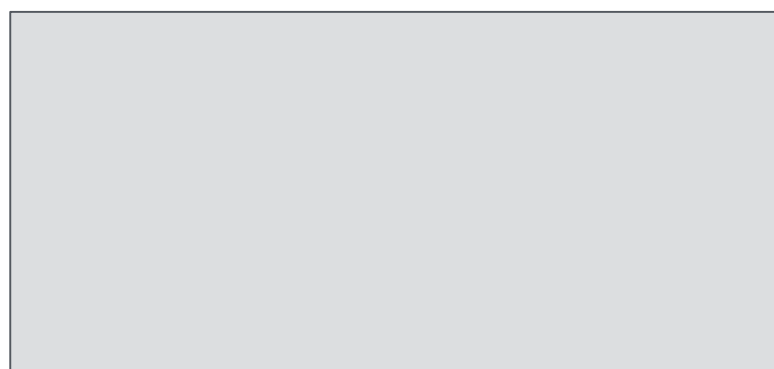


3 cm

The area is \_\_\_\_\_.

*30 square centimeters*

6 cm



3 cm

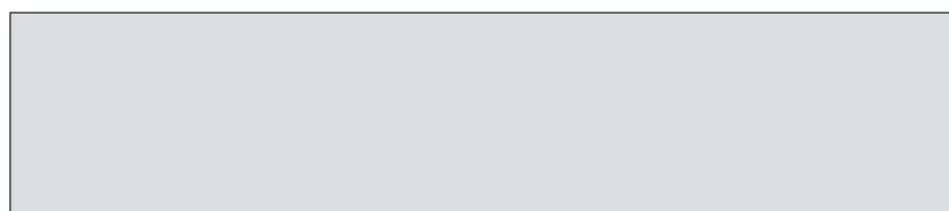
The area is \_\_\_\_\_.

*18 square centimeters*



# Find the Area

16cm



3 cm

The area is \_\_\_\_\_.

*48 square centimeters*

Width (in cm)	Length (in cm)	Area (sq cm)
6	20	<i>120</i>
6	8	<i>48</i>
4	40	<i>160</i>
4	47	<i>188</i>
6	28	<i>168</i>
4	7	<i>28</i>

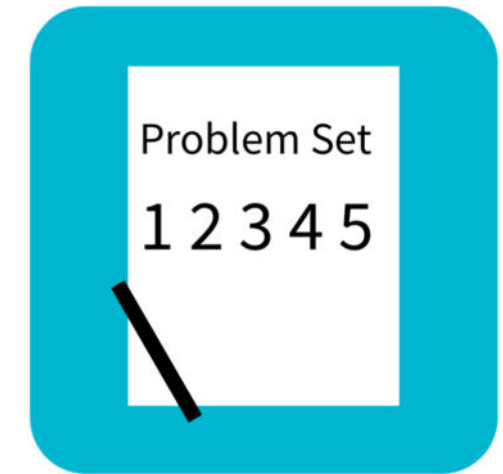


# Application Problem

Emma's rectangular bedroom is 11 ft. long and 12 ft. wide. Draw and label a diagram of Emma's bedroom. How many square feet of carpet does Emma need to cover her bedroom floor?



# Concept Development is the Problem Set



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Emma's rectangular bedroom is 11 ft long and 12 ft wide with an attached closet that is 4 ft by 5 ft. How many square feet of carpet does Emma need to cover both the bedroom and closet?



# Exit Ticket: Reflection

Name \_\_\_\_\_

Date \_\_\_\_\_

In the table below are topics that you learned in Grade 4 and that were used in today's lesson.

Choose 1 topic, and describe how you were successful in using it today.

2-digit by 2-digit multiplication	Area formula	Division of 3-digit number by 1-digit number
Subtraction of multi-digit numbers	Addition of multi-digit numbers	Solving multi-step word problems



# 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.
- For many word problems in Grade 4, we drew tape diagrams to model the problems. What advantage does the area model have over tape diagrams for these types of problems? How can being able to draw various models be helpful as you move into the next grades?
- In which other questions did you see each of the strategies that were used in Problem 4?
- Did you prefer using one strategy over the other? Why?
- How did Problem 3 relate to Problem 2?