



Material List

(S) Blank paper

(S) square-centimeter and square-inch tiles, centimeter grid (template 1) and inch grid (Template 2), and ruler

(S) Personal white board

Eureka Math

3rd Grade Module 4 Lesson 3

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Directions for customizing presentations are available on the next slide.



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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



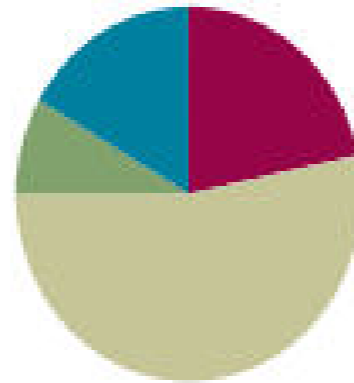
Small Group Time

Lesson 3

Objective: Model tiling with centimeter and inch unit squares as a strategy to measure area.

Suggested Lesson Structure

■ Fluency Practice	(13 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(32 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





I can model tiling with unit squares to measure area.



Fluency Practice

Find the Common Products

Count by 3's to 30 and count by 6's to 60

Match the multiples in each column.

3	6
6	12
9	18
12	24
15	30
18	36
21	42
24	48
27	54
30	60

Complete the unknown factors:

$$\begin{aligned} \underline{\quad} \times 3 &= 6 \\ \underline{\quad} \times 3 &= 12 \\ \underline{\quad} \times 3 &= 18 \\ \underline{\quad} \times 3 &= 24 \\ \underline{\quad} \times 3 &= 30 \end{aligned}$$

$$\begin{aligned} 6 &= \underline{\quad} \times 6 \\ 12 &= \underline{\quad} \times 6 \\ 18 &= \underline{\quad} \times 6 \\ 24 &= \underline{\quad} \times 6 \\ 30 &= \underline{\quad} \times 6 \end{aligned}$$

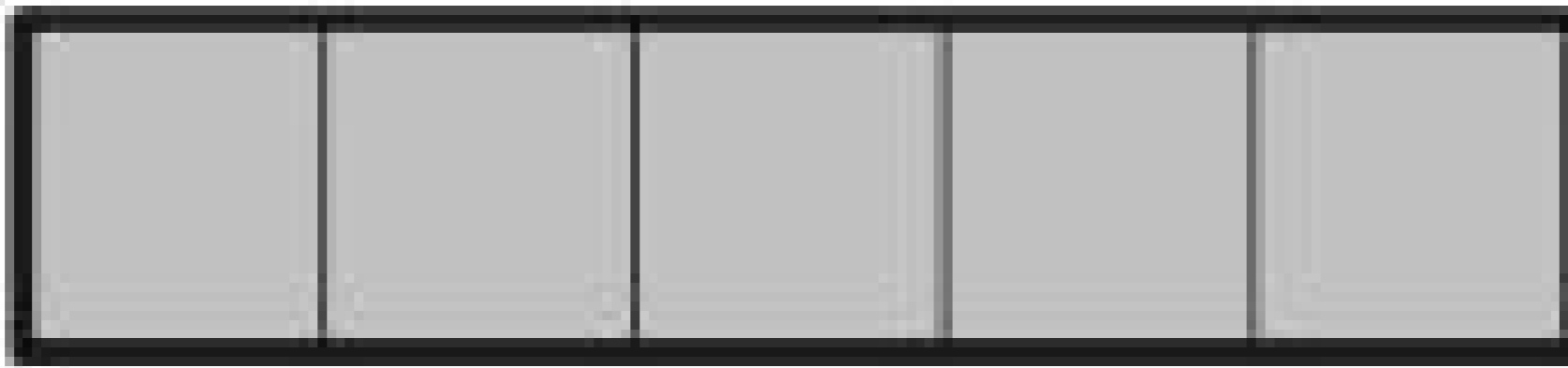
$$\begin{aligned} 2 \times 3 &= 1 \times 6 \\ 4 \times 3 &= 2 \times 6 \\ 6 \times 3 &= 3 \times 6 \\ 8 \times 3 &= 4 \times 6 \\ 10 \times 3 &= 5 \times 6 \end{aligned}$$



Fluency Practice

Count the square units

What's the area of the rectangle?



5 square units



Fluency Practice

Find the Common Products

What's the area of the rectangle?



6 square units



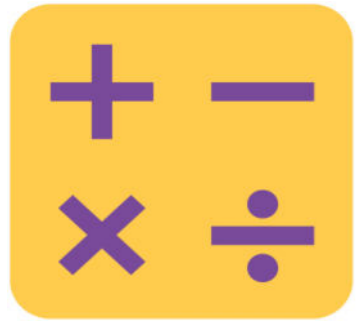
Fluency Practice

Find the Common Products

What's the area of the rectangle?



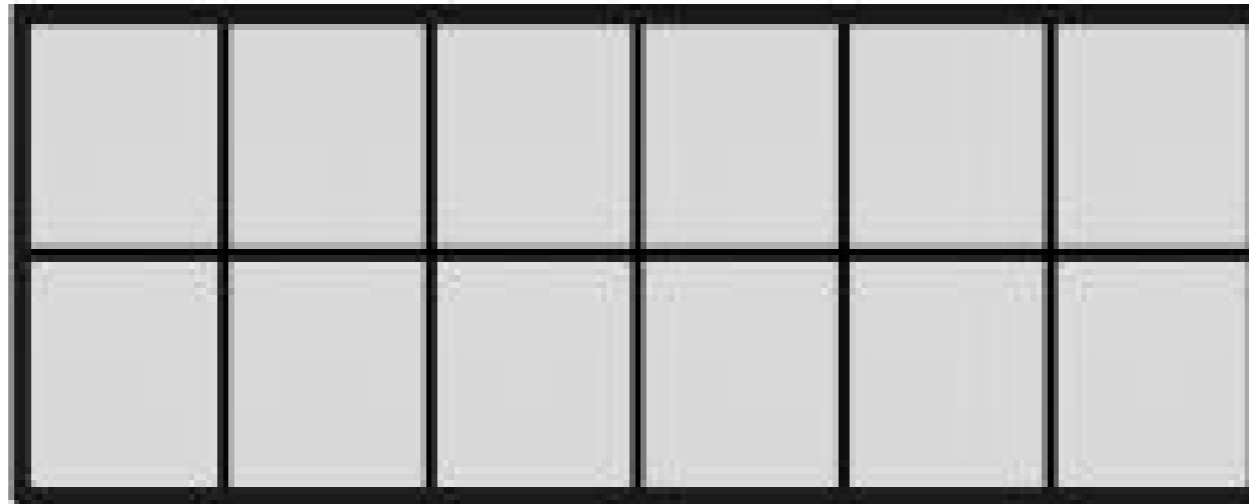
8 square units



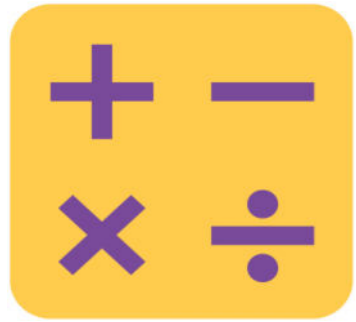
Fluency Practice

Find the Common Products

What's the area of the rectangle?



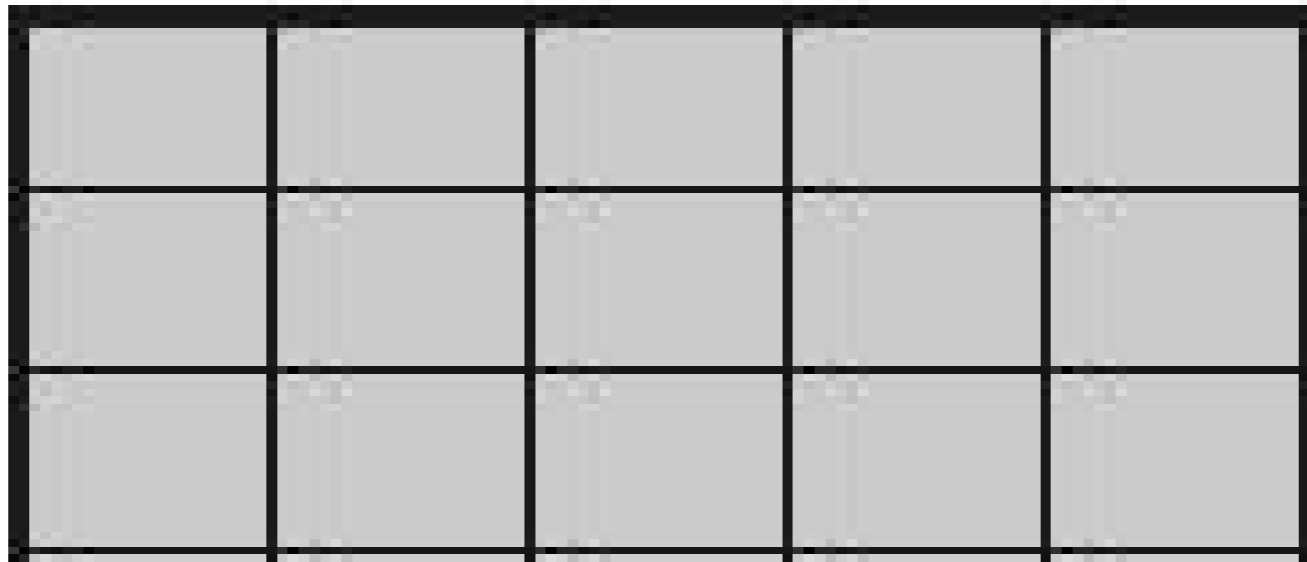
12 square units



Fluency Practice

Find the Common Products

What's the area of the rectangle?



15 square units



Application Problem

Jace uses paper squares to create a rectangle. Clary cuts all of Jace's square in half to create triangles. She uses all the triangles to make a rectangle. There are 16 triangles in Clary's rectangle. How many squares were in Jace's shape?

Use the RDW (Read, Draw, Write) process to show your solution.



Application Problem

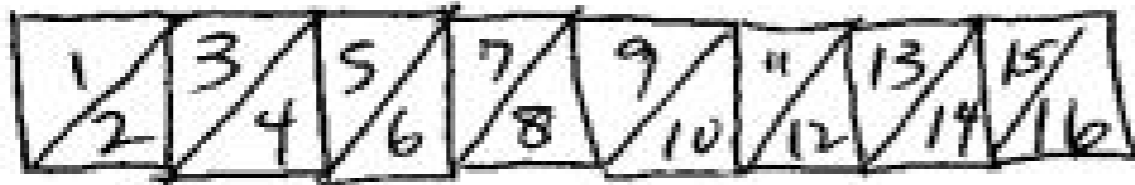
The following are possible student solutions:

- Dividing

$$16 \div 2 = 8$$

There were 8 squares in Jace's shape.

- Drawing a picture



$$16 \div 2 = 8$$

- Skip-counting by twos

2, 4, 6, 8, 10, 12, 14, 16

8 twos

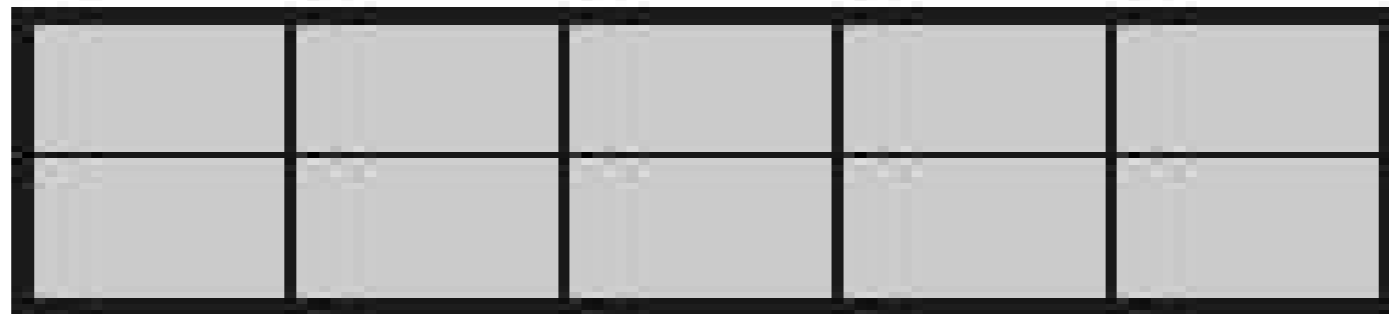
$$16 \div 2 = 8$$

There were 8 squares in Jace's shape.



Concept Development

Arrange 10 square-centimeters tiles
into 2 equal rows.



What's the area of the rectangle?

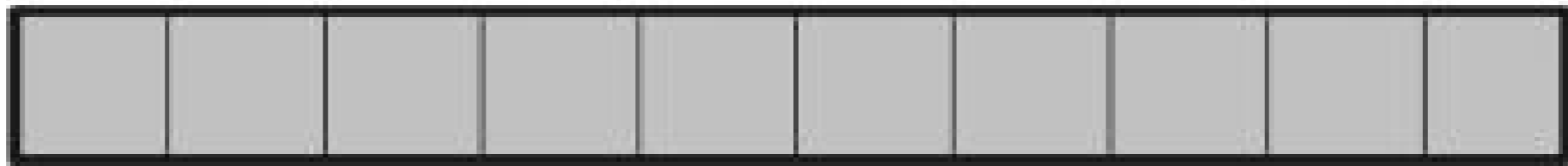
10 square units

Is there another way to arrange all of your
tiles to make a rectangle?



Concept Development

Arrange your tiles in
1 row of 10.



What is the area now?

10 square units



Concept Development

Use your ruler to measure all four sides of a tile in centimeters.



Can we define these units more precisely?

Yes, all four sides measure 1 centimeter, so they are square centimeters.



Concept Development

What is the area of your rectangle in square centimeters?

10 centimeters



Concept Development

Pass out centimeter grid.

*Please slip the grid paper into your personal white board.

*Each side of the squares in the grid measure 1 centimeter.



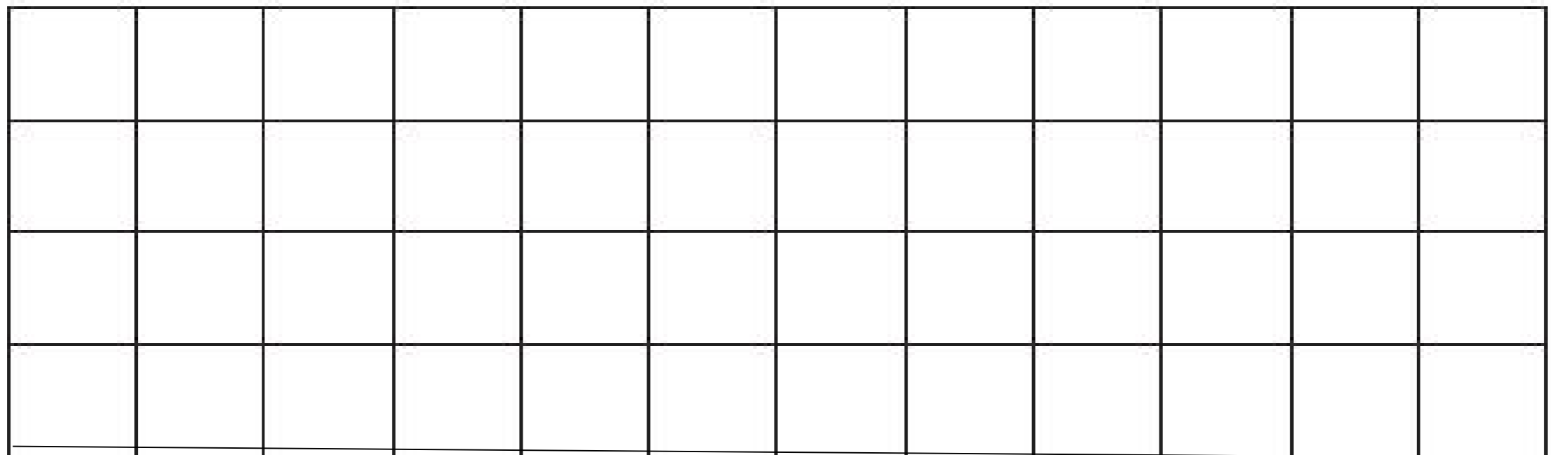
How is this grid paper like the tiles we used?

They are both square centimeters.



Concept Development

Shade the grid paper to represent the rectangle you made with tiles.



10 square centimeters



Concept Development

Remove a tile from your rectangle.



What is the area now?

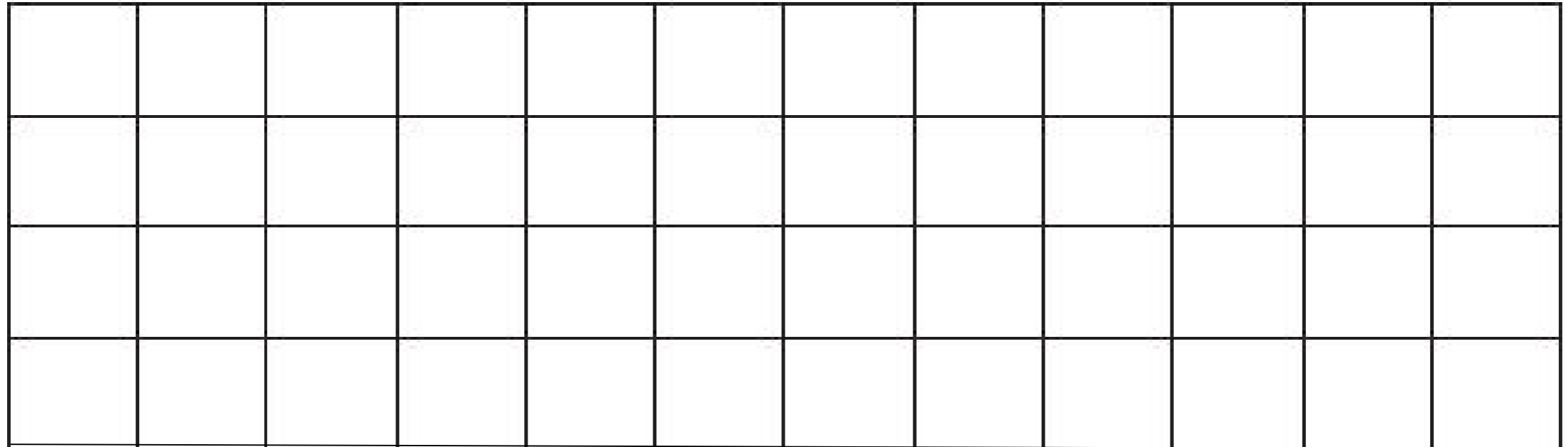
9 square centimeters



Concept Development



How can you change the rectangle on the grid paper to have the same area as your rectangle?



Eraser one of the squares.



Concept Development


What is the area of the shaded rectangle?

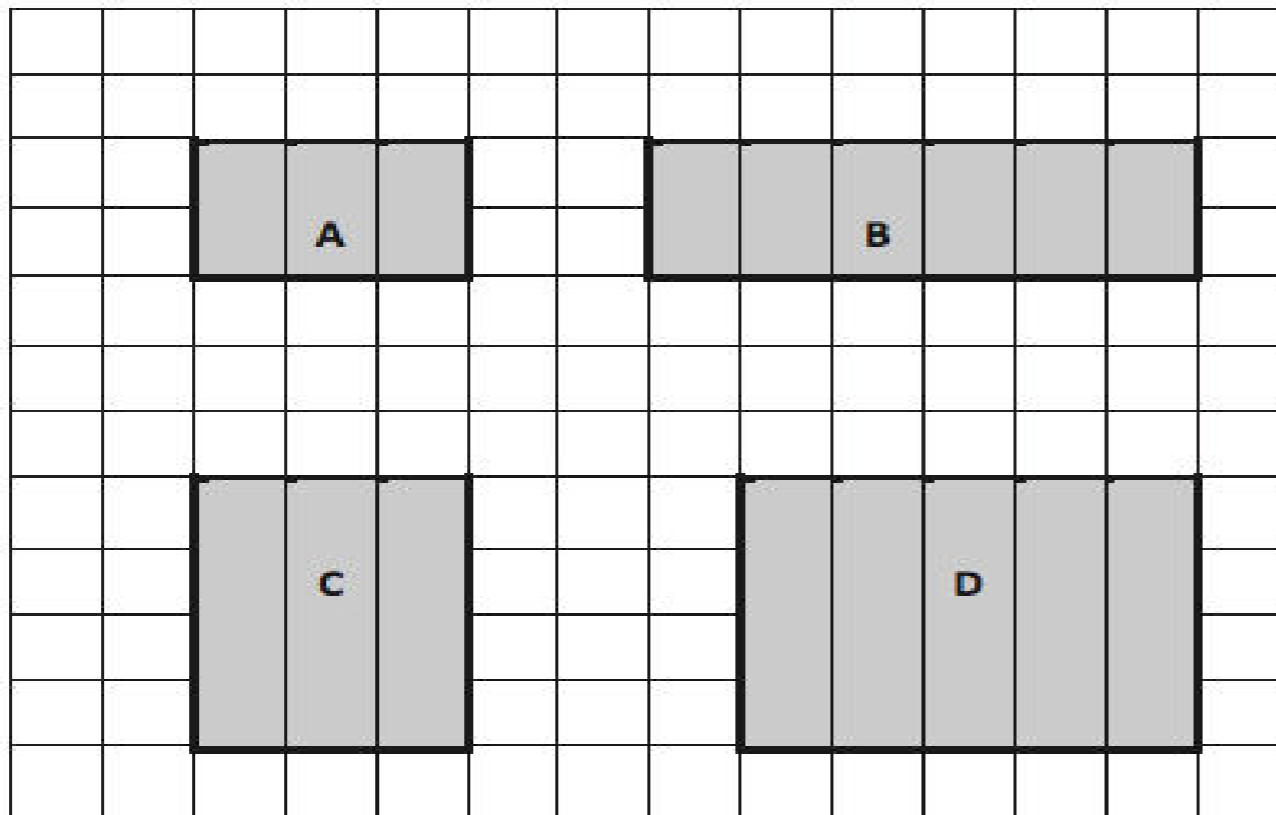
9 square centimeters

Problem Set

Name _____

Date _____

1. Each  is 1 square unit. What is the area of each of the following rectangles?



A: _____ square units

B: _____

C: _____

D: _____

Debrief

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

*How are the rectangles in Problems 1 (b) and 1 © the same? How are they different?

*How are the rectangles in Problems 1 (a) and 2 (a) the same? How are they different?

*Which rectangle in Problem 2 has the biggest area? How are you know?

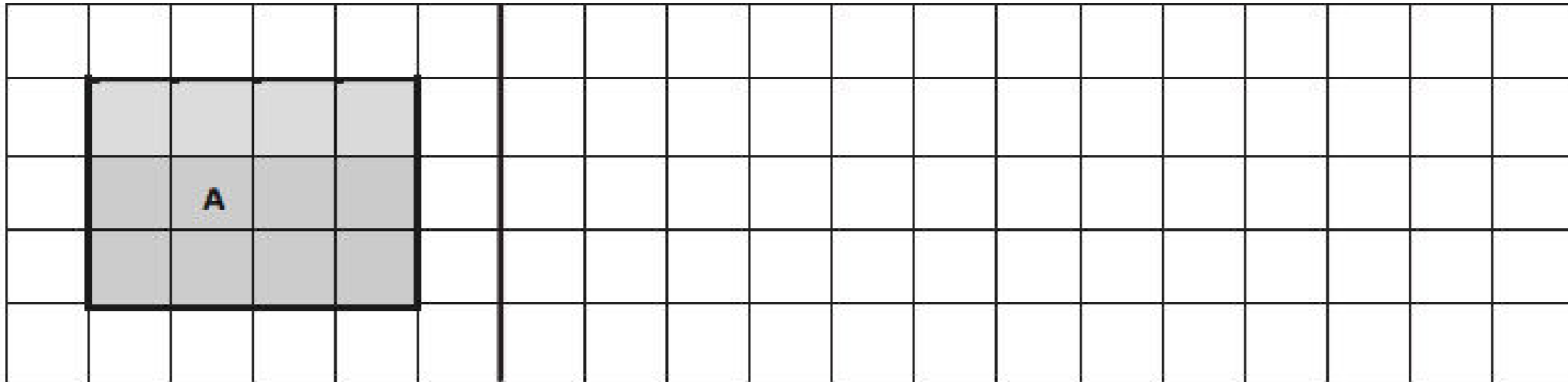
*Compare the rectangles you made in Problem 4 with a partner's rectangles. How are they same? How are they different?

Exit Ticket

Name _____

Date _____

1. Each  is 1 square unit. Write the area of Rectangle A. Then, draw a different rectangle with the same area in the space provided.



Area = _____