

Materials List:

- Multiply or Divide by 7 Sprint
 - whiteboards
 - Rulers
- 3 strings from Lesson 26
- Sample problem set template

Eureka Math

3rd Grade Module 7 Lesson 27

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.



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Customize this Slideshow

Reflecting your Teaching Style and Learning Needs of Your Students

- When the Google Slides presentation is opened, it will look like Screen A.
- Click on the “pop-out” button in the upper right hand corner to change the view.
- The view now looks like Screen B.
- Within Google Slides (not Chrome), choose FILE.
- Choose MAKE A COPY and rename your presentation.
- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.

The image shows a transition from a presentation viewer (Screen A) to the Google Slides editor (Screen B). Screen A displays a blue slide with the text "ReadyGEN™ in Action" and "3rd Grade Unit 3, Module A Lesson 1". A red box highlights the "pop-out" button in the top right corner of the viewer. A red arrow points from this button to Screen B. Screen B shows the Google Slides editor interface for a file named "Gr3(2) U3MAL1 Sample Lesson.pptx". The "File" menu is open, and the "Make a copy..." option is highlighted with a red box. A "Copy document" dialog box is open, showing the "Enter a new document name:" field with the text "Rename Your Presentation". The "OK" button is highlighted with a red box. The background of Screen B is a blue slide with the same text as Screen A.

Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

File Edit View Insert Slide Format Arrange Tools Table Help Last edit was yesterday at

Share...

New

Open...

Rename...

Make a copy...

Organize...

Move to trash

Import slides...

See revision history

Language

Download as

Publish to the web...

Email collaborators...

Email as attachment...

Page setup...

Print settings and preview

Print

Copy document

Enter a new document name:

Rename Your Presentation

Comments will not be copied to the new document.

Share it with the same people

OK Cancel

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



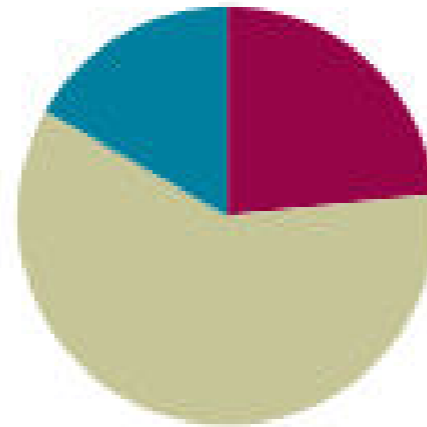
Small Group Time

Lesson 27

Objective: Use rectangles to draw a robot with specified perimeter measurements, and reason about the different areas that may be produced.

Suggested Lesson Structure

■ Fluency Practice	(14 minutes)
■ Concept Development	(36 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





I can use rectangles to draw a robot with specified perimeter measurements, and reason about the different areas that may be produced.



Fluency Practice

Sprint: Multiply or Divide by 7 (10 minutes)

A STORY OF UNITS

Lesson 27 Sprint

3•7

A

Number Correct: _____

Multiply or Divide by 7

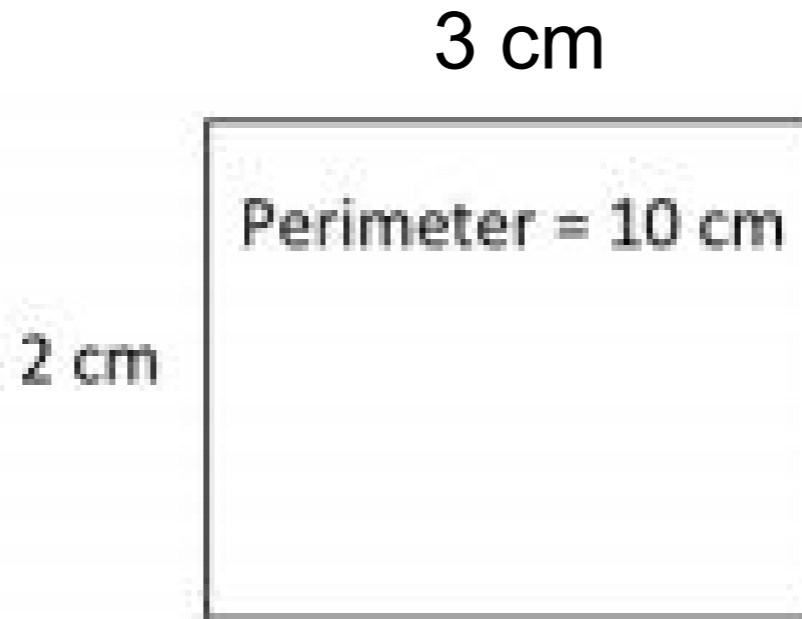
1.	$2 \times 7 =$	
2.	$3 \times 7 =$	
3.	$4 \times 7 =$	
4.	$5 \times 7 =$	
5.	$1 \times 7 =$	
6.	$14 \div 7 =$	
7.	$21 \div 7 =$	
8.	$35 \div 7 =$	
9.	$7 \div 7 =$	

23.	$\underline{\quad} \times 7 = 70$	
24.	$\underline{\quad} \times 7 = 14$	
25.	$\underline{\quad} \times 7 = 21$	
26.	$70 \div 7 =$	
27.	$35 \div 7 =$	
28.	$7 \div 7 =$	
29.	$14 \div 7 =$	
30.	$21 \div 7 =$	
31.	$\underline{\quad} \times 7 = 42$	



Fluency Practice

Find the Area (4 minutes)



Area = ___

On your personal white board, write the length of this rectangle.

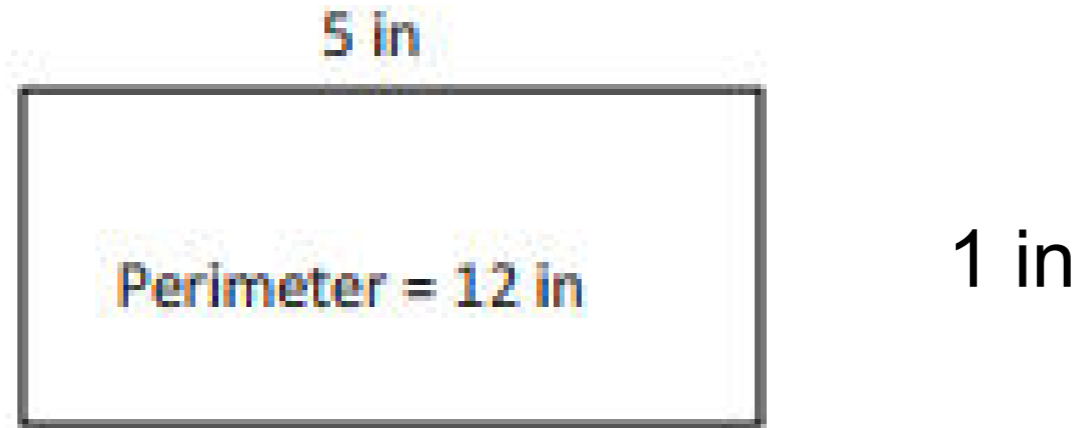
On your board, write the area of this rectangle. Write a multiplication sentence if you need to.

Draw a different rectangle that has the same area.



Fluency Practice

Find the Area (4 minutes)



Area = ____

On your personal white board, write the width of this rectangle.

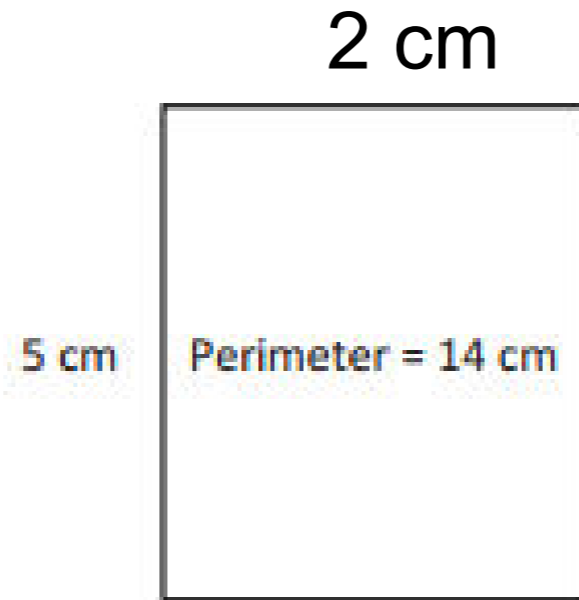
On your board, write the area of this rectangle. Write a multiplication sentence if you need to.

Draw a different rectangle that has the same area.



Fluency Practice

Find the Area (4 minutes)



Area = ____

On your personal white board, write the length of this rectangle.

On your board, write the area of this rectangle. Write a multiplication sentence if you need to.

Draw a different rectangle that has the same area.



Concept Development

Part A: Robot Evaluation (20 minutes)

Here is a finished robot. Let's analyze the work. How can we check the measurements and perimeter calculations?

We can use rulers to check the measurements and then add to double-check the perimeters.

Sample Robot





Concept Development

Part A: Robot Evaluation (20 minutes)

To analyze the accuracy of this robot, I used my ruler to measure the widths and lengths of each body part and recorded them on the chart in front of you. Then, I calculated the perimeter of Rectangle A and checked it with the required perimeter, labeled in the final column. Check my calculation for Rectangle A. Does it match the required perimeter?



Yes. They are both 14 centimeters



Concept Development

Part A: Robot Evaluation (20 minutes)

Work with a partner to finish calculating the rest of the perimeters using the given lengths and widths. If you find that your measurements differ from the required perimeter, put a star by the letter of the rectangle.

What did you find?

These perimeters are all correct!



Concept Development

Part A: Robot Evaluation (20 minutes)

What is next on our list?

Checking that the body is double the perimeter of an arm and that the neck is half the perimeter of the head.

Do that now. Record your calculations, and then check your answer with a partner's.

What did you find?

It is done correctly. A perimeter of 28 centimeters for the robot's body is double 14 centimeters, and 8 centimeters for the robot's neck is half of 16 centimeters.



Concept Development

Part A: Robot Evaluation (20 minutes)

Each of you will analyze a classmate's robot just as we did this one.

Write your classmate's name on your Problem Set.

Confirm the measurements and perimeters calculated by your classmate with your ruler.

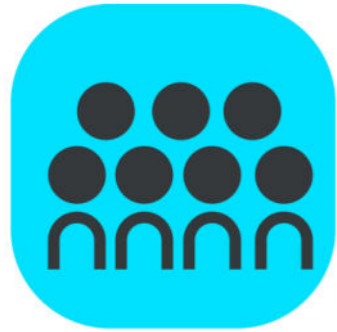


Concept Development

Part B: Robot Environment Evaluation (15 minutes)

In Part B, you will use the same process as in Part A to evaluate a different classmate's robot environment.

Each of you will use your three strings to measure non rectangular items like the sun and the tree tops.



Debrief (10 minutes)

- How was the student work you checked similar to the design you created? How was it different?
- How was checking the student work different from creating your design yesterday? If you could go back and change your design, would you? If so, in what ways?
- What did you learn about the areas of rectangles that have the same perimeters? How does this help you better understand the relationship between area and perimeter?

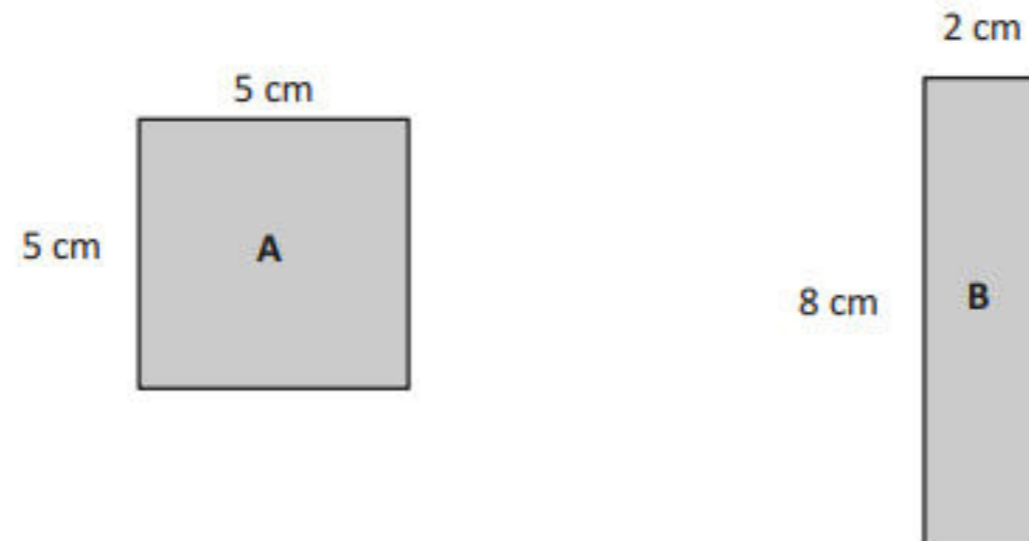


Exit Ticket (3 minutes)

Name _____

Date _____

1. Record the perimeters and areas of Rectangles A and B in the chart below.



Rectangle:	Width and Length:	Perimeter	Area
A	_____ cm by _____ cm		
B	_____ cm by _____ cm		