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Area and Perimeter Practice

Questions 1–11 (SAB pp. 22–34)

- I. Number sentences may vary. One possible number sentence is given for each.
 - A. Area: 36 square centimeters Perimeter: 30 centimeters 3 + 12 + 3 + 12 = 30 centimeters
 - **B.** Area: 34 square centimeters
 - Perimeter: 30 centimeters 2 + 2 + 2 + 2 + 2 + 1 + 2 + 4 +
 - 4 + 9 = 30 centimeters **C.** Area: 14 square centimeters
 - Perimeter: 30 centimeters 1 + 14 + 1 + 14 = 30 centimeters
 - **D.** Area: 54 square centimeters Perimeter: 30 centimeters 6 + 9 + 6 + 9 = 30 centimeters
 - **E.** Area: 14 square centimeters Perimeter: 16 centimeters 4 + 3 + 5 + 2 + 1 + 1 = 16 centimeters
 - **F.** Area: 20 square centimeters Perimeter: 42 centimeters 20 + 20 + 2 = 42 centimeters

G. Area: 50 square centimeters Perimeter: 30 centimeters

10 + 10 + 5 + 5 = 30 centimeters

H. Area: $25 \times 10 = 250$ square centimeters Perimeter: 70 centimeters

25 + 25 + 10 + 10 = 70 centimeters

- **2. A.** Answers will vary. Possible responses: The shapes are all made of square centimeters; they all have the same perimeter.
 - **B.** Possible responses: The shapes all have a different shape; three are rectangles, one is not; they all have different areas.
- **3.** Answers will vary. Students should draw two shapes with perimeters of 30 cm and find their areas in sq. cm.

Name	Date	
∎G.		
	Area: Perimeter:	
■H.	A Large rectangle is 25 cm long and 10 cm wide.	
	Area: Perimeter:	
★●2. Co	ompare the shapes in Question 1A–D.	
A.	. How are the shapes the same?	
		Copy
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в	How are the change different?	endall H
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4. Shapes may vary for Parts A–D. One possible shape is shown for each riddle.



Perimeter: 18 inches



Area: 12 square inches Perimeter: 14 inches



Area: 12 square inches Perimeter: 16 inches



Area: 12 square inches Perimeter: 16 inches

5. Riddles and answers will vary. Possible shapes include:



Area: 12 square inches Perimeter: 26 inches



Area: 12 square inches Perimeter: 22 inches



Area: 12 square inches

Perimeter: 16 inches

6. A. Area: 6 square inches

Perimeter: 12 inches

- **B.** Answers will vary.
- **C.** Answers will vary. The areas of all the shapes are the same.
- **D.** The perimeters of all the shapes are different.
- **7.** Explanations will vary. Students may say that two rectangles with the same area can have different perimeters, so both Jackie's and Roberto's rectangles can be correct.





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Name		Date	
●■8.	Using five square-inch tiles, I have different perimeters? SI perimeter next to each shape	now many shapes can you find that ketch each shape below. Write the a e you draw.	each irea and
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∎9.	Roberto has 24 started to make with the smalles table. Draw a sk smallest perime	square-centir a table to find t perimeter. C ketch of the re ter.	neter tiles. He d the rectangle complete Roberto's ctangle with the	edge to edge	
	Length cm	Width cm	Perimeter cm	1	
	24	1	50	1	
	12	2	28	1	
	8	3		1	
	6	4			
	4	6			
	3	8			
	2	12			
	1	24			
					pyright
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8. Shapes may vary, but only two different perimeters are possible:



Area: 5 square inches Perimeter: 12 inches



Area: 5 square inches Perimeter: 10 inches









Area: 24 square centimeters Perimeter: 20 centimeters

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5 TG · Grade 4 · Unit 2 · Lesson 3 · Answer Key

- 10.
- Length Width Perimeter Area cm cm cm sq cm 6 6 24 36 5 7 24 35 4 8 24 32 3 9 24 27 2 10 24 20 1 11 24 11 11 cm



II. Shapes may vary, but only five different areas are possible:



Area: 9 square inches Perimeter: 12 inches



Area: 8 square inches Perimeter: 12 inches



Area: 7 square inches Perimeter: 12 inches



Area: 6 square inches Perimeter: 12 inches



Area: 5 square inches Perimeter: 12 inches

∎10.	Keenya has a 24-centimeter piece of wire. She needs to bend it to make different rectangles. She started, a table to find the rectangle with the smallest area. Complete Keenya's table. Draw a sketch of the rectangle with the smallest area.					
	Length cm	Width cm	Perimeter cm	Area cm	1	
	6	6	24	36]	
	5	7	24	35]	
	4	8				
	3	9				
	2					
	1					
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			Dat		_
■11.	How many different shapes can 12 inches, but each has a differe Write the area and perimeter ne:	you find th ent area? S xt to each	nat hav Sketch shape	ve a perimeter of each shape below. you draw.	
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Α	Area and Perimeter Practice Check-In: Q# 3, 6–7 Feedback Box	Expectation	Check In	Comments	Copyright® Kendall Hunt Pc
A Recog relatio and pe	Area and Perimeter Practice Check-In: Q# 3, 6–7 Feedback Box nize and generalize geometric nships in problems involving the area trimeter of rectangles. [Q# 6 and 7]	Expectation E4	Check In	Comments	Copyright @ Kendall Hunt Publishing Comp
A Recog relatio and pe Find th shapes [Q# 3]	Area and Perimeter Practice Check-In: Q# 3, 6–7 Feedback Box nize and generalize geometric nships in problems involving the area arimeter of rectangles. [Q# 6 and 7] he perimeter of rectangles and irregular by counting units and adding. and 6]	Expectation E4 E6	Check In	Comments	Copyright @ Kendall Hunt Publishing Company
A Recogy relatio and pe Find th shapes [Q# 3] Find th shapes [Q# 6]	Area and Perimeter Practice Check-In: Q# 3, 6–7 Feedback Box nize and generalize geometric nships in problems involving the area rrimeter of rectangles. [Q# 6 and 7] he perimeter of rectangles and irregular by counting units and adding. and 6] he area of rectangles and irregular is by counting, adding, or multiplying.	Expectation E4 E6 E7	Check In	Comments	Copyright@ Kendall Hunt Publishing Company

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