Answer Key • Lesson 4: Helipads for Antopolis

Student Guide

Questions 1-5 (SG pp. 63-64)

- **1.*** 12 inches
- 2.* 8 square inches
- **3. A.*** Yes, 1×5 inches and 3×3 inches
 - **B.** 5 square inches and 9 square inches
 - **C.*** Answers will vary. Students may think that a square helipad is better for helicopters than a rectangular helipad. Accept all answers.

4. A-B.

L	=	1	1	ir	IC	he	es, $W = 1$ inch, $A = 11$ square inches	
L	=	1	0	ir	۱C	he	es, $W = 2$ inches, $A = 20$ square inches	;
L	=	9	i	าด	ch	es	s, $W = 3$ inches, $A = 27$ square inches	
	Н							
	П							
	П							
L	=	8	i	าด	h	es	$\overline{B}, W = 4$ inches, $A = 32$ square inches	
	Н				Η			
	Н		Η		Η	Н		
	П							
L	=	7	' iı	nc	h	es	s, $W = 5$ inches, $A = 35$ square inches	
-								

L = 6 inches, W = 6 inches, A = 36 square inches

- C.* See Figure 2 in lesson 4
- **D.*** 6 inch \times 6 inch; 36 square inches
- **E.*** Possible response: I made a data table showing all the possible rectangles you can make that have P = 24 inches. The one with the most area is the 6" × 6" square.
- **F.*** 6 inch \times 6 inch rectangle is a square.
- **G.*** The 1 inch \times 11 inch rectangle is long and skinny.







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- **5. A.** 9 inch \times 9 inch rectangle
 - **B.** Answers will vary. Students should identify the 9×9 square as the largest rectangle having a perimeter of 36 inches. In student explanations, look for descriptions of the steps performed while solving the problem, as well as dimensions of other rectangles with perimeters of 36 inches but with areas smaller than the 9×9 rectangle. Students can show how they checked whether a particular rectangle has a perimeter of 36 inches by writing a number sentence. Check that students label numbers appropriately, square inches for area and inches for perimeter.