Student Guide

Area Problems (SG pp. 186–187) Questions 1–3

I. Shapes will vary. Sample shape with an area of 12 sq cm:



- **2. A.*** 7 squares
 - **B.*** 4 rows
 - C.* 28 sq cm
- **3.** 3 rows of 9 squares is 27 sq cm.







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I



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 A. Rectangles will vary. One possible rectangle is shown. 7 cm × 3 cm = 21 sq cm.



B. Shapes will vary. One possible shape is shown.



Homework (SG p. 188) Questions 1–2

- A. 8 sq cm; Strategies will vary. One possible strategy is to divide the shape into several rectangles and find the area of each rectangle.
 2 cm × 1 cm + 2 cm × 2 cm + 2 cm × 1 cm = 8 sq cm
 - **B.** 7.5 sq cm; Strategies will vary. One possible strategy is to find the area of the rectangle two of the triangles will make and divide that area in half.

 $5 \text{ cm} \times 3 \text{ cm} \div 2 = 7.5 \text{ sq cm}$

- **C.** 15 sq cm; Strategies will vary. One possible strategy is to find the area by multiplying length times width. $3 \text{ cm} \times 5 \text{ cm} = 15 \text{ sq cm}$
- D. 16 sq cm; Strategies will vary. Length × width is 4 cm × 4 cm = 16 sq cm.

C. Shapes will vary. One possible shape is shown.



D. Explanations will vary. One possible solution is shown where the triangle has half the area of the 12 sq cm rectangle.



E. Shapes will vary. One possible shape is shown.

