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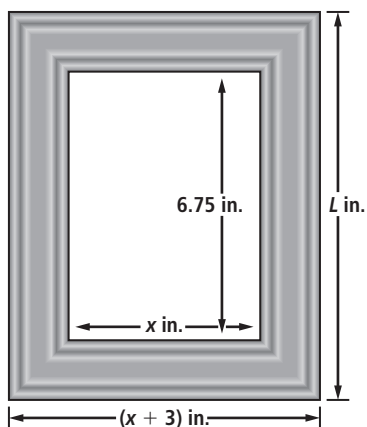
**5-10B Lesson Master****Questions on SPUR Objectives**

See pages 320–323 for objectives.

**USES** Objective J

- Kurt creates a scale drawing of his room. The length of his room is 14 feet. He uses 2 inches to represent 3 feet. What measurement does he use to represent the length of his room on his drawing? \_\_\_\_\_
- An artist creates a design for a stained glass window that has a width of 21 inches and a length of 45 inches. The width of the design is 2 more than  $\frac{1}{3}$  its length. What are the dimensions of the design the artist created?  
\_\_\_\_\_
- A deck is built around a rectangular swimming pool with a length of 20 feet and a width of 14 feet. The length of the deck is 9 feet longer than its width. What is the perimeter of the deck? \_\_\_\_\_

A picture frame is often marked by the size of the picture it can hold. The ratio of the length of the photo opening to the length of a picture frame is 3 to 5.



- What is the length,  $L$ , of the frame? \_\_\_\_\_
- What is the width of the frame? \_\_\_\_\_
- What size picture will this frame hold? \_\_\_\_\_

A  $3'' \times 5''$     B  $5'' \times 7''$     C  $8'' \times 10''$     D  $0'' \times 13''$

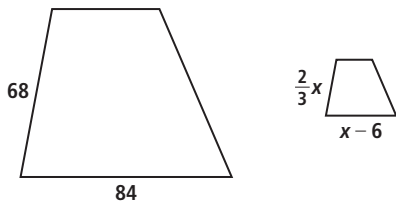
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**5-10B**

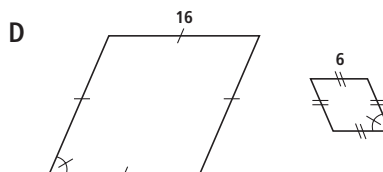
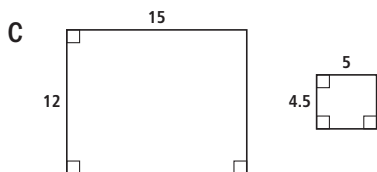
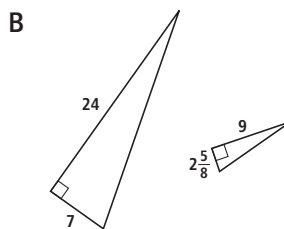
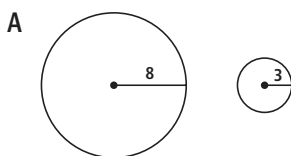
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**REPRESENTATIONS** Objective L

These two figures are similar.



7. What is the ratio of similitude of the larger figure to the smaller figure? \_\_\_\_\_
8. What are the missing lengths of the smaller figure? \_\_\_\_\_
9. Which set of figures is not similar? \_\_\_\_\_



In 10 and 11, a triangle has sides of lengths 5 inches, 12 inches and 13 inches.

10. Find the perimeter of a similar triangle whose longest side is 10.4 inches. \_\_\_\_\_
11. What is the ratio of similitude of the smaller triangle to the larger triangle? \_\_\_\_\_

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