

Name _____

5-10B Lesson Master

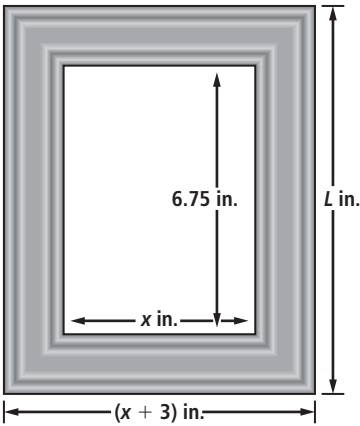
Questions on SPUR Objectives
See pages 320–323 for objectives.

USES Objective J

1. 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? _____
2. 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?

3. 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.



4. What is the length, L , of the frame? _____
5. What is the width of the frame? _____
6. What size picture will this frame hold?

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

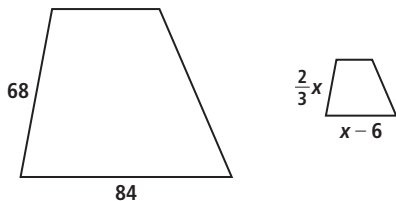
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5-10B

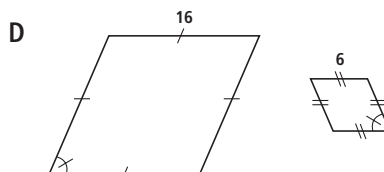
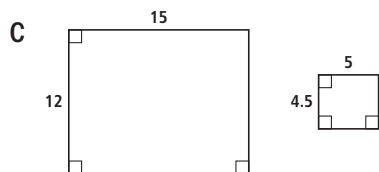
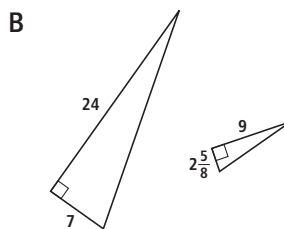
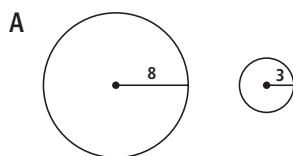
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REPRESENTATIONS Objective L

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? _____