

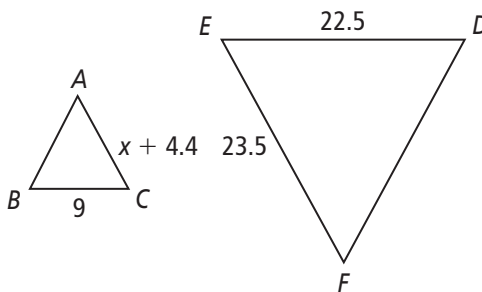
7-2 Standardized Test Prep

Similar Polygons

Multiple Choice

For Exercises 1–5, choose the correct letter.

- You make a scale drawing of a tree using the scale 5 in. = 27 ft. If the tree is 67.5 ft tall, how tall is the scale drawing?
 A 10 in. B 11.5 in. C 12 in. D 12.5 in.
- You make a scale drawing of a garden plot using the scale 2 in. = 17 ft. If the length of a row of vegetables on the drawing is 3 in., how long is the actual row?
 F 17 ft G 25.5 ft H 34 ft I 42.5 ft
- The scale factor of $\triangle RST$ to $\triangle DEC$ is 3 : 13. What is the scale factor of $\triangle DEC$ to $\triangle RST$?
 A 3 : 13 B 1 : 39 C 39 : 1 D 13 : 3
- $\triangle ACB \sim \triangle FED$. What is the value of x ?



- F 4 G 4.2 H 4.5 I 5
- $MNOP \sim QRST$ with a scale factor of 5 : 4. $MP = 85$ mm. What is the value of QT ?
 A 60 mm B 68 mm C 84 mm D 106.25 mm

Short Response

6. Are the triangles at the right similar? Explain.

