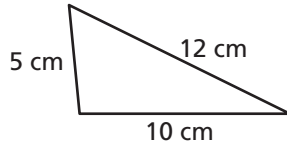


GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.4.4 Benchmark Pre-Test (Multiple Choice)

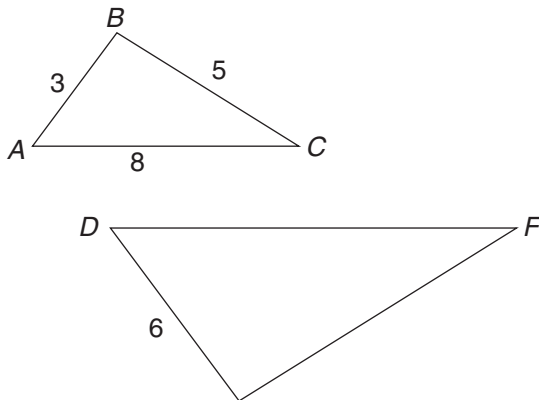
1. Margo draws a triangle.



If Jeff draws a triangle that is congruent to Margo's triangle. Which is NOT the measure of one of the sides of Jeff's triangle?

- A. 5 centimeters C. 12 centimeters
 B. 10 centimeters D. 15 centimeters

2. In the figure below $\triangle ABC$ is similar to $\triangle DEF$.



What is the length of \overline{DF} ?

- F. 16 units H. 10 units
 G. 11 units I. 4 units

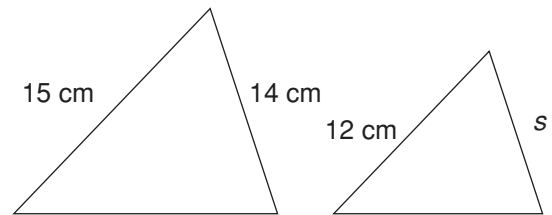
3. A tree casts a shadow that is 15 feet long. Nearby a fence post that is 4 feet tall casts a shadow that is 5 feet long. What is the height of the tree?

- A. 1.33 feet
 B. 12 feet
 C. 14 feet
 D. 18.75 feet

4. The combined area of three congruent triangles is 108 square inches. What could be the measures of the height and base of one of the triangles?

- F. 4 inches, 9 inches
 G. 8 inches, 9 inches
 H. 12 inches, 9 inches
 I. 12 inches, 27 inches

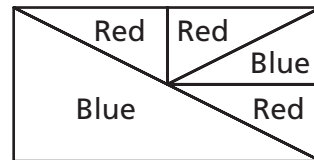
5. Similar triangles are shown below.



What is the length of side s ?

- A. 17.5 centimeters
 B. 12.9 centimeters
 C. 11.2 centimeters
 D. 11 centimeters

6. Zana made a rectangular design using 5 similar triangles of either red or blue.



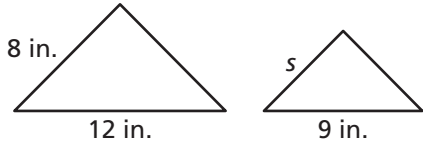
The rectangle measures 4 inches by 10 inches. What is the total area of the design that is red?

- F. 5 square inches
 G. 15 square inches
 H. 20 square inches
 I. 25 square inches

GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
10 MA.912.G.4.4 Benchmark Pre-Test (Gridded Response)

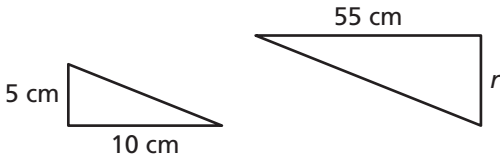
Use the Gridded Response Answer Sheet.

7. Similar triangles are shown below.



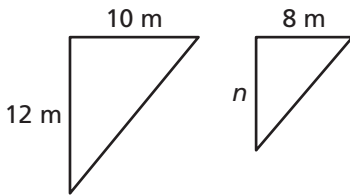
What is the length in inches of the side labeled s ?

8. Similar triangles are shown below.



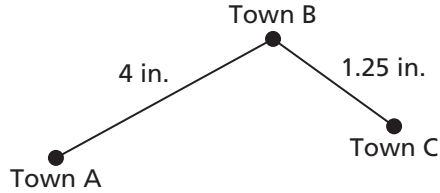
What is the length in centimeters of the side labeled r ?

9. Similar triangles are shown below.



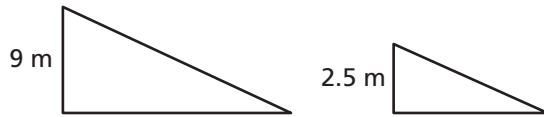
What is the area of the smaller triangle in square meters? ?

10. Melissa plans a trip from Town A to Town B and then on to Town C. She measures the distances on the map.



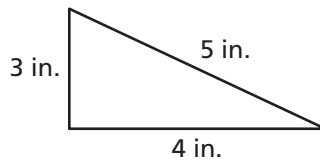
If the actual distance from Town A to Town B is 28 miles, what is the distance from Town B to Town C in miles?

11. The right triangles are similar. The area of the smaller right triangle is 8.75 square meters.



What is the measure of the longer leg of the larger triangle in meters?

12. A civil engineer made a scale drawing of a triangular island for a parking lot. The hypotenuse of the actual island will be 17.5 feet.



What will be the perimeter of the actual island in feet?