

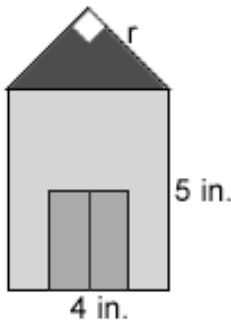
Name: \_\_\_\_\_

**1999, Mathematics - Grade 10**

**Question 33: Multiple Choice**

Geometry

Use the diagram to answer question 33.



Above is a scale drawing of the front view of a shed. The roof of the shed forms an isosceles right triangle. On the scale drawing, the edge of the roof,  $r$ , would measure

- A.  $\sqrt{2}$  inches.
- B.  $2\sqrt{2}$  inches.
- C. 4 inches.
- D.  $4\sqrt{2}$  inches.

**2000, Mathematics - Grade 10**

**Question 40: Multiple Choice**

Geometry



Triangles  $ABC$  and  $DEF$  are similar. The lengths of the sides of  $\triangle DEF$  are 3 times the lengths of the corresponding sides of  $\triangle ABC$ . How do the areas of the triangles compare?

- A. The area of  $\triangle DEF$  is 3 times the area of  $\triangle ABC$ .
- B. The area of  $\triangle DEF$  is 4 times the area of  $\triangle ABC$ .
- C. The area of  $\triangle DEF$  is 6 times the area of  $\triangle ABC$ .
- D. The area of  $\triangle DEF$  is 9 times the area of  $\triangle ABC$ .

**2004, Mathematics - Grade 10**

**Question 16: Short Answer**

Measurement



The length of the hypotenuse of a right triangle is 13 centimeters, and the length of one leg is 12 centimeters. What is the area of the triangle?