

8-2 Standardized Test Prep

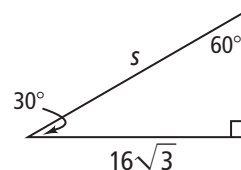
Special Right Triangles

Multiple Choice

For Exercises 1–5, choose the correct letter.

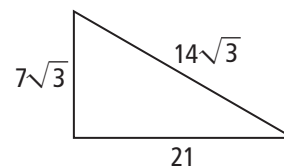
1. What is the value of s ?

- (A) 8 (C) $16\sqrt{2}$
 (B) 16 (D) 32



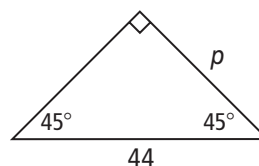
2. What are the angle measures of the triangle?

- (F) 30° , 60° , and 90° (H) 60° , 60° , and 60°
 (G) 45° , 45° , and 90° (I) They cannot be determined.



3. What is the value of p ?

- (A) 22 (C) 44
 (B) $22\sqrt{2}$ (D) $44\sqrt{3}$



4. In the center of town there is a square park with side length 30 ft. If a person walks from one corner of the park to the opposite corner, how far does the person walk? Round to the nearest foot.

- (F) 21 ft (G) 42 ft (H) 52 ft (I) 60 ft

5. An equilateral triangle has an altitude of 15 m. What is the perimeter of the triangle?

- (A) $30\sqrt{2}$ m (B) 45 m (C) $30\sqrt{3}$ m (D) $60\sqrt{3}$ m

Short Response

6. The hypotenuse of a 30° - 60° - 90° triangle is 24.2 ft. Explain how to find the lengths of the legs of the triangle.