

**CHAPTER**  
**8**
**Section Quiz**
**Lessons 8-1 Through 8-3**

Choose the best answer.

1. What is the length of the altitude to the hypotenuse in a right triangle if this altitude divides the hypotenuse into segments of lengths 8 millimeters and 18 millimeters?

A 12 mm                      C 26 mm  
 B 13 mm                      D 36 mm

Use the figure for Exercises 2 and 3.



2. If  $XY = 10$  and  $XW = 12$ , what is  $VY$ ?

F 2                                  H 12  
 G 4.4                              J 14.4

3. If  $XY = 9$  and  $VW = 6$ , what is  $VX$ ?

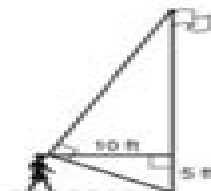
A 3                                  C 12  
 B 4                                  D 13

4. To estimate the height of a flagpole, Marci, who is 5 feet tall, stands so that her lines of sight to the top and bottom of the pole form a  $90^\circ$  angle. What is the height of the pole to the nearest foot?

F 9 ft                                  H 25 ft  
 G 20 ft                              J 50 ft

5. One acute angle of a right triangle measures  $28^\circ$ . To the nearest tenth, what is the length of the side opposite that angle if the hypotenuse measures 16 meters?

A 7.5 m                          C 18.1 m  
 B 14.1 m                        D 34.1 m



Use the figure for Exercises 6 and 7.



6. What is  $\tan K$ ?

F  $\frac{8}{17}$                                   H  $\frac{15}{17}$   
 G  $\frac{8}{15}$                                   J  $\frac{15}{8}$

7. To the nearest degree, what is  $m\angle M$ ?

A  $2^\circ$                                   C  $62^\circ$   
 B  $28^\circ$                                 D  $88^\circ$

8. A 24-foot ladder forms a  $76^\circ$  angle with the ground. The top of the ladder rests against a building. To the nearest inch, how high up the building does the ladder reach?

F 5 ft 10 in.                      H 18 ft 5 in.  
 G 18 ft 1 in.                      J 23 ft 3 in.

9. What is  $\cos 30^\circ$ ?

A  $\frac{1}{\sqrt{3}}$                                   C  $\frac{2}{\sqrt{3}}$   
 B  $\frac{\sqrt{3}}{2}$                                   D  $\sqrt{3}$

10. To the nearest degree, what is the measure of the smallest angle of a right triangle whose legs measure 9 and 15?

F  $31^\circ$                                   H  $53^\circ$   
 G  $37^\circ$                                   J  $59^\circ$

11. To the nearest degree, what angle does a hill with a grade of 11% make with a horizontal line?

A  $6^\circ$                                   C  $79^\circ$   
 B  $11^\circ$                                 D  $84^\circ$

# Houghton Mifflin Geometry Ch 5 Answers

**Brendan G. Carr**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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