CHAPTER Section Quiz

Lessons 8-1 Through 8-3

Choose the best answer.

 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.



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

F 2

H 12

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

A 3

C 12

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° 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°. 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?

 $F = \frac{8}{17}$

4 15

 $G = \frac{8}{15}$

J 13

To the nearest degree, what is m∠M?

A 2"

C 62°

B 28"

D 88*

8. A 24-foot ladder forms a 76° 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.

What is cos 30"?

 $A = \frac{1}{\sqrt{3}}$

c 2

 $B = \frac{\sqrt{3}}{2}$

 $D \sqrt{3}$

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

F 31*

H 53"

G 37°

J 59"

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

A 6"

C 79°

B 11"

D 84*

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David Baud

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