

CHAPTER
8
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
 G 4.4 J 14.4
- If $XY = 9$ and $VW = 6$, what is VX ?
 A 3 C 12
 B 4 D 13
- 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
- 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.



- What is $\tan K$?
 F $\frac{8}{17}$ H $\frac{15}{17}$
 G $\frac{8}{15}$ J $\frac{15}{8}$
- To the nearest degree, what is $m\angle M$?
 A 2° C 62°
 B 28° D 88°
- 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 $\cos 30^\circ$?
 A $\frac{1}{\sqrt{3}}$ C $\frac{2}{\sqrt{3}}$
 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°
- 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°

Chapter 5 Geometry Quiz

Wolfgang Guggemos



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