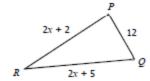
Geometry Review QUIZ 4

Name:

Given: ΔLMN ~ ΔQPR, find RQ.



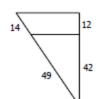


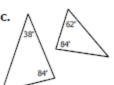
- A. 11
- B. 24
- C. 27
- D. 32

2. Which pair of triangles are similar?

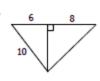




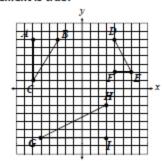




D.

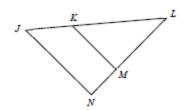


3. Using the triangles shown below, which statement is true?



- A. $\triangle ABC \sim \triangle FED$
- C. $\triangle ABC \sim \triangle HIG$
- **B.** $\Delta DFE \sim \Delta HIG$
- **D.** $\Delta DFE \sim \Delta GIH$

4. Which condition would not prove $\Delta KML \sim \Delta JNL$?

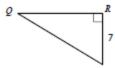


- A. $\angle LKM \cong \angle LJN$
- C. JN || KM

5. Which side lengths form a right triangle? Check all that apply.

- 10, 13, 17
- 12, 35, 37
- 6.5, 7.2, 9.7
- 15, 15, 22
- 11, 20.5, 23.8

- A rectangle with a length of 15 feet has a diagonal that measures 17 feet. Find the perimeter of the rectangle.
 - A. 46 feet
 - B. 32 feet
 - C. 58 feet
 - D. 64 feet
- 7. If the diagonals of a square measure 24 meters, what is the length of a side of the square?
 - A. 8√2 meters
 - B. 10√2 meters
 - C. 12√2 meters
 - D. 24√2 meters
- 8. In ΔQRS , if $m \angle Q = 30^{\circ}$, what must be the length of \overline{QR} ?

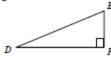


- A. 14
- **B.** 7√3
- C. 7√2
- D. 14√
- Given Δ4BC, which of the following ratios is equivalent to cos B?



- A. 5
- c. 12
- B. 13
- D. 13

10. Given ΔDEF, if DE = 50 inches and EF = 19 inches, what is m∠D to the nearest tenth of a degree?



- A. 16.1°
- B. 18.5°
- C. 20.7°
- D. 22.3°
- 11. If the vertical height of the rollercoaster below is 315 feet, find d to the nearest foot.



- A. 448 feet
- B. 462 feet
- C. 475 feet
- D. 492 feet
- 12. Kurt is flying his airplane over a campground. He spots a small fire below at an angle of depression of 32°. If the horizontal distance from Kurt's plane to the fire is 3600 feet, find the approximate altitude of his plane.
 - A. 2,250 feet
 - B. 2,575 feet
 - C. 2,825 feet
 - D. 3,150 feet