

## Geometry 8.4a Worksheet Answers

1. Hypotenuse:  $\overline{KL}$ , Adjacent:  $\overline{JL}$ , Opposite:  $\overline{JK}$
2. Hypotenuse:  $\overline{PQ}$ , Adjacent:  $\overline{RQ}$ , Opposite:  $\overline{PR}$
3. Hypotenuse:  $\overline{MO}$ , Adjacent:  $\overline{MN}$ , Opposite:  $\overline{ON}$

4.

a.  $\frac{y}{x}$

b.  $\frac{x}{z}$

c.  $\frac{y}{z}$

d.  $\frac{x}{z}$

e.  $\frac{y}{x}$

f.  $\frac{x}{z}$

f.  $\frac{z}{y}$

5.  $\sin \theta = \frac{5}{13}$ ,  $\cos \theta = \frac{12}{13}$ ,  $\tan \theta = \frac{5}{12}$

6.  $\sin \theta = \frac{4}{5}$ ,  $\cos \theta = \frac{3}{5}$ ,  $\tan \theta = \frac{4}{3}$

7.  $\cos 50 = \frac{x}{8}$

8.  $\sin 80 = \frac{x}{12}$

9.  $\frac{3}{4}$

10.  $\frac{4\sqrt{2}}{9}$

11.

a.  $\sin 68 = \frac{\text{height}}{4}$

b.  $\cos 68 = \frac{\text{distance}}{4}$

12.

a. Drawing may vary

b.  $\sin 32 = \frac{15}{\text{length}}$

c.  $\tan 32 = \frac{15}{\text{distance}}$