

Primary Trigonometry Ratios – Side Lengths Practice SOLUTIONS

1. a) Opposite = AC
Adjacent = BC
Hypotenuse = AB

b) Opposite = XY
Adjacent = YZ
Hypotenuse = XZ

c) Opposite = QR
Adjacent = PR
Hypotenuse = PQ

2. a) 0.5

b) 0.707

c) 1.732

3. a) 13.4 m

b) 141.5 m

c) 35.5 m

d) 51.8 m

4. Find side y first:

$$\tan \theta = \frac{O}{A}$$

$$\tan 46 = \frac{y}{8}$$

$$y = 8 \tan 46$$

$$= 8.3m$$

Then find side x:

$$\tan \theta = \frac{O}{A}$$

$$\tan 35 = \frac{8.3}{x}$$

$$x = \frac{8.3}{\tan 35}$$

$$= 11.9m$$

5. a) 20.5 m

b) 13.5 m

c) 10.9 m

d) 45.1 m