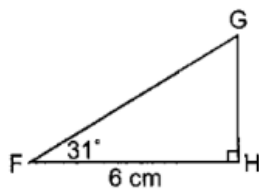


Practice

1. Find the length of the side opposite the given angle to the nearest tenth of a centimetre.

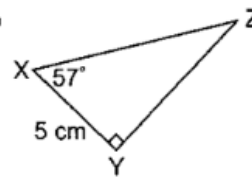
a)



The given angle is $\angle F$.
 The side opposite $\angle F$ is _____.
 The side adjacent to $\angle F$ is _____.

GH is about _____ long.

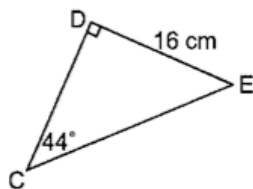
b)



The given angle is \angle _____.
 The side opposite \angle _____ is _____.
 The side adjacent to \angle _____ is _____.

_____ is about _____ long.

2. Find the length of CD to the nearest tenth of a centimetre.

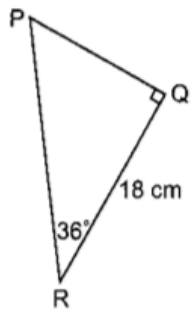


The given angle is $\angle C$.
 The side opposite $\angle C$ is _____.
 The side adjacent to $\angle C$ is _____.

CD is about _____ long.

3. Find the length of the indicated side to the nearest tenth of a centimetre.

a) Side PQ

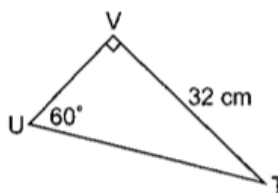


$$\tan R = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan \quad = \quad$$

PQ is about _____ long.

b) Side UV



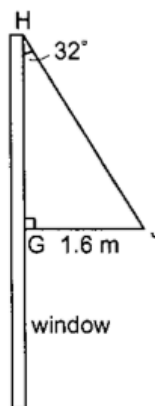
$$\tan \quad = \quad$$

$$\tan \quad = \quad$$

UV is about _____ long.

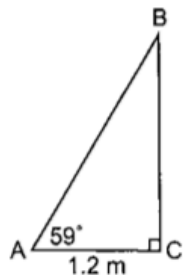
4. This diagram shows an awning over the window of a house. Find the height of the awning, GH, to the nearest tenth of a metre.

$$\tan H = \quad$$



The height of the awning is about _____.

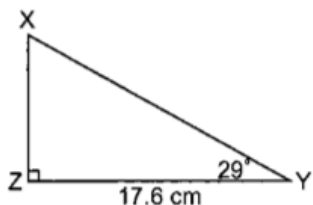
5. A rope supports a tent. The angle between the rope and the level ground is 59° . The rope is attached to the ground 1.2 m from the base of the tent. At what height above the ground is the rope attached to the tent? Give your answer to the nearest tenth of a metre.



The rope is attached to the tent at a height of about _____.

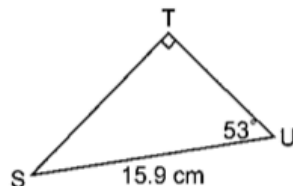
1. Which ratio would you use to find each length?

a) XY



The measure of \angle _____ is known.
 YZ is the side _____.
 XY is the _____.
 So, use the _____ ratio.

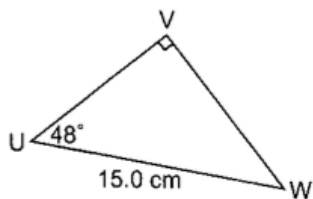
b) ST



The measure of \angle _____ is known.
 ST is the side _____.
 SU is the _____.
 So, use the _____ ratio.

2. Find the length of each indicated side to the nearest tenth of a centimetre.

a) VW



The measure of \angle _____ is known.

The side opposite \angle _____ is _____.

The hypotenuse is _____.

So, use the _____ ratio.

$$\sin \text{ _____ } = \frac{\text{side _____}}{\text{hypotenuse}}$$

$$\sin \text{ _____ } = \text{ _____ }$$

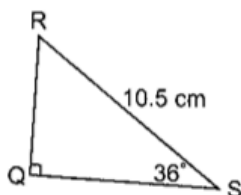
$$\sin \text{ _____ } = \text{ _____ }$$

$$\text{ _____ } \sin \text{ _____ } = \text{ _____ }$$

$$\text{VW} = \text{ _____ }$$

VW is about _____ long.

b) QR



The measure of \angle _____ is known.

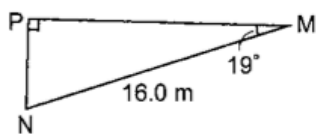
QR is the _____.

RS is the _____.

So, use the _____ ratio.

QR is about _____ long.

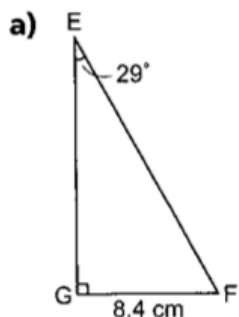
3. Find the length of side PM to the nearest tenth of a metre.



The measure of \angle _____ is known.
 PM is the side _____.
 MN is the _____.
 So, use the _____ ratio.

PM is about _____ long.

4. Find the length of each hypotenuse to the nearest tenth of a centimetre.



The measure of \angle _____ is known.
 The side opposite \angle _____ is: _____
 The hypotenuse is: _____
 So, use the sine ratio.

$$\sin \text{ _____ } = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin \text{ _____ } = \text{ _____ }$$

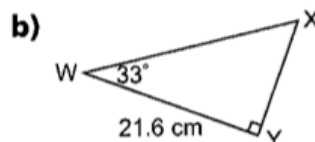
$$\sin \text{ _____ } = \text{ _____ }$$

$$\text{ _____ } \sin \text{ _____ } = \text{ _____ }$$

$$EF = \text{ _____ }$$

$$EF = \text{ _____ }$$

EF is about _____ long.

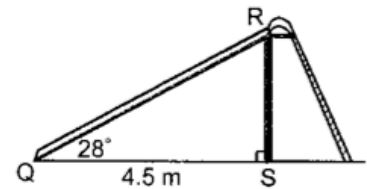


The measure of \angle _____ is known.
 WY is the side _____
 WX is the _____.
 So, use the _____ ratio.

$$WX = \text{ _____ }$$

WX is about _____ long.

5. A straight slide in a playground makes an angle of 28° with the ground. The slide covers a horizontal distance of 4.5 m. How long is the slide? Give your answer to the nearest tenth of a metre.



The measure of $\angle Q$ is known.

The side adjacent to $\angle Q$ is: _____

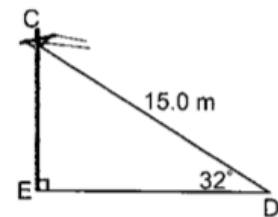
The hypotenuse is: _____

So, use the _____ ratio.

$$QR = \underline{\hspace{2cm}}$$

The slide is about _____ long.

6. A 15-m support cable joins the top of a telephone pole to a point on the ground. The cable makes an angle of 32° with the ground. Find the height of the pole to the nearest tenth of a metre.



The height of the pole is about _____.

