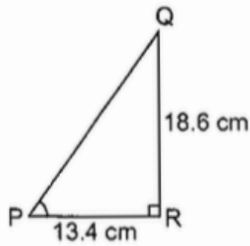


Practice

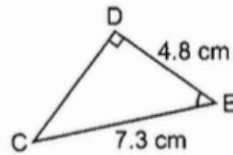
1. Which ratio would you use to find the measure of each angle?

a) $\angle P$



QR is the side _____.
 PR is the side _____.
 So, use the _____ ratio.

b) $\angle E$

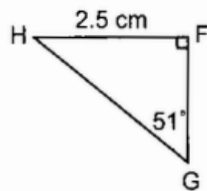


DE is the _____.
 CE is the _____.
 So, use the _____ ratio.

Remember the acronym
 SOH-CAH-TOA.

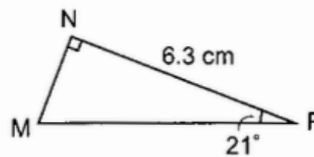
2. Which ratio would you use to find the length of each indicated side?

a) GH



HF is the _____.
 GH is the _____.
 So, use the _____ ratio.

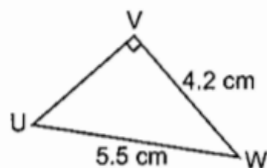
b) MN



MN is the _____.
 NP is the _____.
 So, use the _____ ratio.

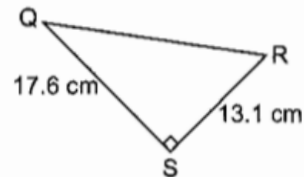
3. Find all unknown angle measures to the nearest degree.

a)



Find the measure of $\angle U$.

b)



Find the measure of $\angle Q$.

The acute angles have a sum of 90° .

So, $\angle W = 90^\circ - \underline{\hspace{2cm}}$

$\angle W \doteq 90^\circ - \underline{\hspace{2cm}}$

$\angle W \doteq \underline{\hspace{2cm}}$

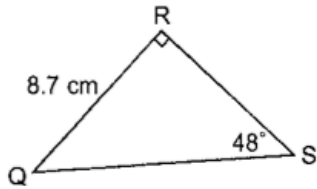
The acute angles have a sum of 90° .

So, $\angle R = \underline{\hspace{2cm}}$

$\angle R \doteq \underline{\hspace{2cm}}$

$\angle R \doteq \underline{\hspace{2cm}}$

4. Find all unknown side lengths to the nearest tenth of a centimetre.



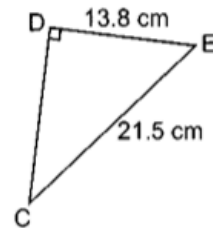
Find the length of QS.

Find the length of RS.

QS is about _____ long.

RS is about _____ long.

5. Solve this triangle. Give angle measures to the nearest degree. Give side lengths to the nearest tenth of a centimetre.



Find the measure of $\angle E$.

Find the length of CD.

Use the Pythagorean Theorem.

$$\angle E \cong \underline{\hspace{2cm}}$$

CD is about _____ long.

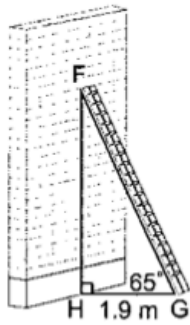
The acute angles have a sum of 90° .

$$\text{So, } \angle C = 90^\circ - \underline{\hspace{2cm}}$$

$$\angle C \cong 90^\circ - \underline{\hspace{2cm}}$$

$$\angle C \cong \underline{\hspace{2cm}}$$

6. The base of a ladder is on level ground 1.9 m from a wall. The ladder leans against the wall. The angle between the ladder and the ground is 65° .
- a) How far up the wall does the ladder reach?
- b) How long is the ladder?
- Give your answers to the nearest tenth of a metre.



a)

The ladder reaches the wall at a height of about _____.

b)

The ladder is about _____ long.

