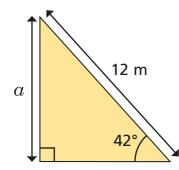
Use the sine and cosine ratio to find missing side lengths



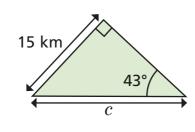
Use the sine ratio to find the unknown lengths.

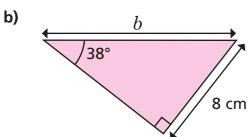
Give your answers to 1 decimal place.

a)

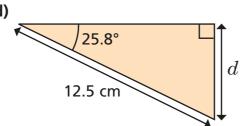


c)





m



c =

$$b = \boxed{}$$
 cm

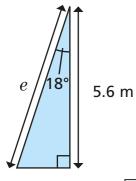
$$d = \boxed{}$$
 cm

km

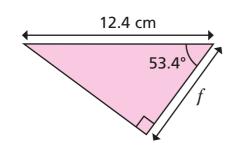
Use the cosine ratio to find the unknown lengths.

Give your answers to 1 decimal place.

a)

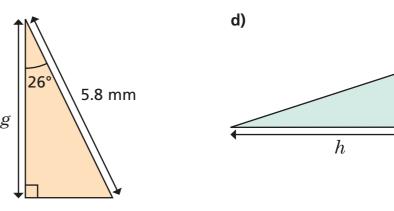


b)



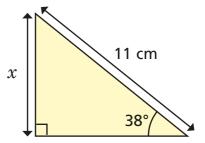
$$f =$$
 cm

c)



2.7 km

Mo and Dora are calculating the length of the side labelled x.



Mo says, "We should use $\sin 38^\circ = \frac{x}{11}$ "

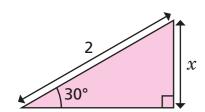
Dora says, "We should use $\sin 38^\circ = \frac{11}{x}$ "

a) Who do you agree with? ___ Give reasons for your answer.

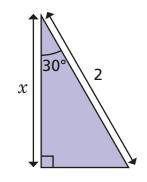
b) Work out the length of the side labelled x.

$$x =$$
 cm

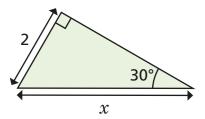
4 Match the diagrams to the equations.



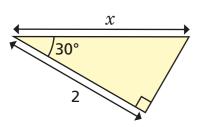
$$\sin 30 = \frac{x}{2}$$



$$\cos 30 = \frac{2}{x}$$



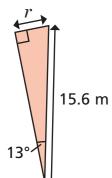
$$\sin 30 = \frac{2}{x}$$



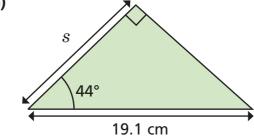
$$\cos 30 = \frac{x}{2}$$

Work out the unknown lengths.
Give your answers to 1 decimal place.

a)

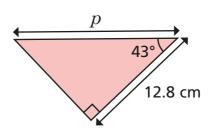


b)

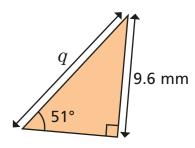


$$s =$$
 cm

c)



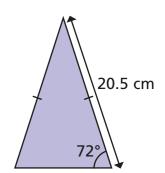
d)



$$p = \boxed{}$$
 cm



Find the height of the triangle.Give your answer to 1 decimal place.



7 Find the length of PQ.

Give your answer to 2 decimal places.

P 20°

47°

14 cm

