

Foundation Bounds Questions

Q1.

The length of a fence is 137 metres, correct to the nearest metre.

Write down

(i) the lower bound for the length of the fence,

..... metres

(ii) the upper bound for the length of the fence.

..... metres

(Total for question = 2 marks)

Q2.

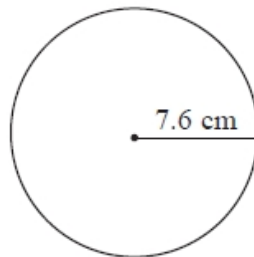


Diagram **NOT**
accurately drawn

(a) A circle has a radius of 7.6 cm.

Work out the area of the circle.

Give your answer correct to 3 significant figures.

..... cm²

(2)

The radius, 7.6 cm, is correct to 1 decimal place.

(b) (i) Write down the upper bound of the radius.

..... cm

(ii) Write down the lower bound of the radius.

..... cm

(2)

(Total for Question is 4 marks)

Q3.

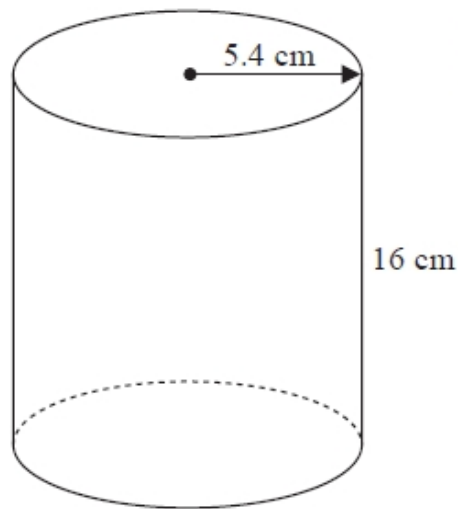


Diagram **NOT**
accurately drawn

A cylinder has radius 5.4 cm and height 16 cm.

- (a) Work out the volume of the cylinder.
Give your answer correct to the nearest whole number.

..... cm³
(2)

The radius 5.4 cm is correct to 2 significant figures.

- (b) (i) Write down the upper bound of the radius.

..... cm

- (ii) Write down the lower bound of the radius.

..... cm
(2)

(Total for question = 4 marks)

Q4.

ABC is a triangle.
 $AC = 7.9$ cm
Angle $B = 90^\circ$
Angle $C = 38^\circ$

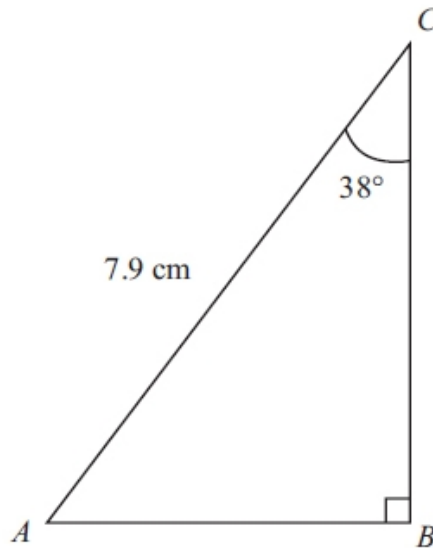


Diagram **NOT**
accurately drawn

- (a) Calculate the length of BC .
Give your answer correct to 3 significant figures.

..... cm
(3)

- (b) The size of angle C is 38° , correct to 2 significant figures.
(i) Write down the lower bound of the size of angle C .

..... $^\circ$

- (ii) Write down the upper bound of the size of angle C .

..... $^\circ$
(2)

(Total for question = 5 marks)

Q5.

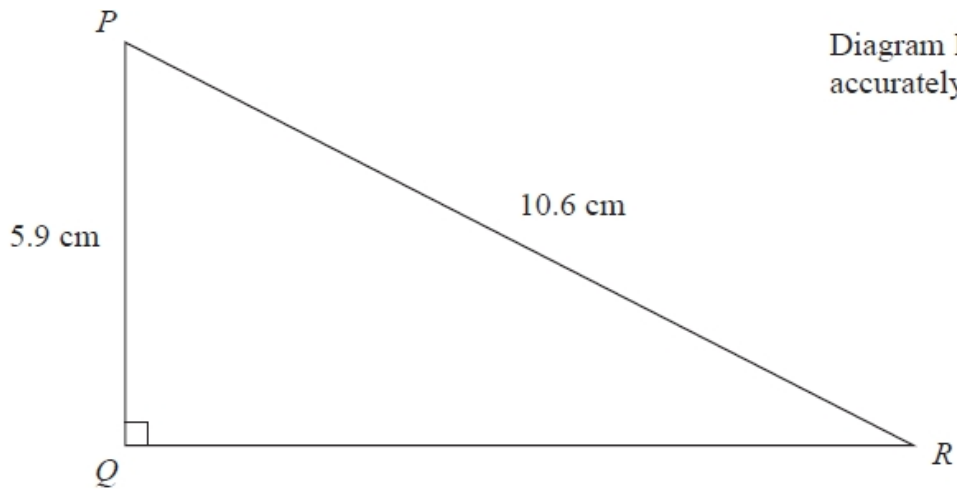


Diagram **NOT** accurately drawn

(a) Work out the length of QR .

Give your answer correct to 3 significant figures.

..... cm
(3)

(b) Work out the size of angle PRQ .

Give your answer correct to 1 decimal place.

.....^o
(3)

The length of a line is 12.4 cm correct to one decimal place.

(c) Write down the upper bound for the length of the line.

..... cm
(1)

(Total for question = 7 marks)

Q6.

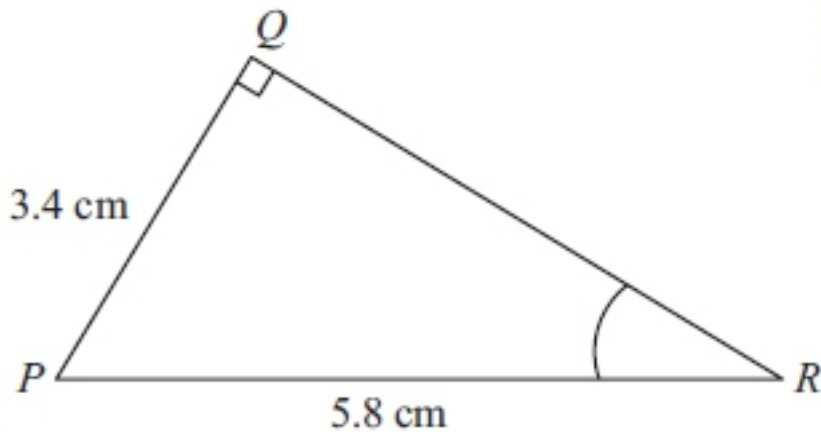


Diagram **NOT** accurately drawn

Triangle PQR has a right angle at Q .

$PQ = 3.4$ cm and $PR = 5.8$ cm

(a) Work out the size of angle QRP .
Give your answer correct to 1 decimal place.

.....^o
(3)

The length 5.8cm, of PR , is correct to 2 significant figures.

(b) (i) Write down the upper bound of the length of PR .

..... cm

(ii) Write down the lower bound of the length of PR .

..... cm
(2)

(Total for question is 5 marks)