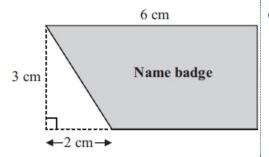
Using the Formula Sheet (Foundation Tier)

Janice cuts a triangle from a rectangular piece of metal. She uses the rest of the metal to make a name badge.

The rectangle has length 6 cm and width 3 cm.

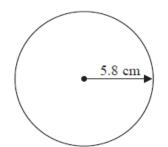
The right-angled triangle has base 2 cm and height 3 cm.

Work out the area of the name badge.



This circle has a radius of 5.8 cm.

Work out the area of the circle. Give your answer to 1 decimal place.

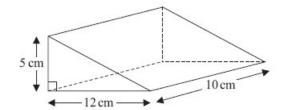


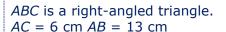
A circle has a diameter of 140 cm.

Work out the circumference of the circle.

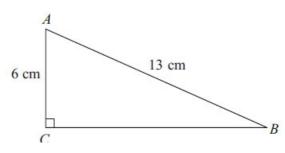
Give your answer correct to 3 significant figures.

Work out the volume of the triangular prism.





Work out the length of *BC*. Give your answer correct to 3 significant figures.



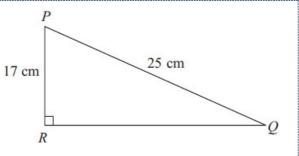
40°

PQR is a right-angled triangle.

$$PR = 17 \text{ cm } PQ = 25 \text{ cm}$$

Work out the size of angle *RPQ*.

Give your answer correct to 1 decimal place.



The diagram shows a quadrilateral ABCD.

16 cm

12 cm



$$AD = 12 \text{ cm}.$$

Angle $BCD = 40^{\circ}$.

Angle ADB = angle CBD = 90°.

Calculate the length of ${\it CD}$. Give your answer correct to 3 significant figures.

There are yellow discs, red discs, blue discs and green discs in a bag. Dinesh is going to take at random a disc from the bag.

The table shows each of the probabilities that Dinesh will take a red disc, or a blue disc, or a green disc.

Colour	yellow	red	blue	green
Probability		0.40	0.25	0.15

Work out the probability that he will take a yellow disc.

Franz invests £1500 at a rate of $3\frac{1}{2}$ % per annum compound interest.

Work out the value of his investment after 2 years.

Charlie invests £1200 at 3.5% per annum compound interest.

Work out the value of Charlie's investment after 3 years.