

1. A 10 pence coin is made from copper and nickel.
The ratio of the weight of copper to the weight of nickel is 18:6

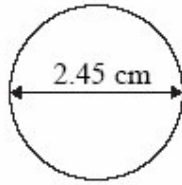
(a) Write the ratio 18:6 in its simplest form

.....

(1)

The diameter of the 10 pence coin is 2.45 cm.

(b) Work out the circumference of the coin.
Give your answer correct to 1 decimal place.



.....cm

(2)

(Total 3 marks)

2. The diameter of a circle is 12 centimetres.

(a) Work out the circumference of the circle.
Give your answer, in centimetres, correct to 1 decimal place.

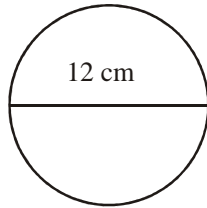


Diagram **NOT**
drawn accurately

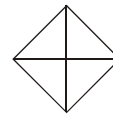


Diagram **NOT**
accurately drawn

..... cm

(2)

The length of each diagonal of a square is 20 cm.

(b) Work out the area of the square.

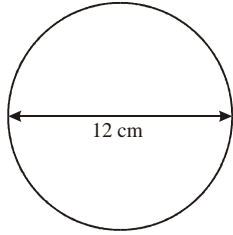
cm²

(Total 4 marks)

(2)

.....

3.



Calculate the area of a circle with diameter 12 cm.

.....

(Total 3 marks)

4.

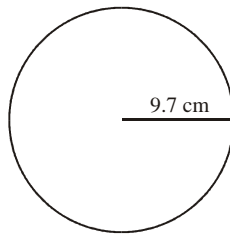


Diagram **NOT** accurately drawn

The radius of the circle is 9.7 cm.
Work out the area of the circle.
Give your answer to 3 significant figures.

..... cm²

(Total 2 marks)

5. Jerry has a new garden roller.
Part of the roller is a cylinder.
The diameter of the cylinder is 0.7 m.
Jerry pushes the roller along.
The cylinder goes around exactly 16 times.



Picture **NOT** accurately drawn

Work out how far the roller moves.
Give your answer correct to 3 significant figures.

..... m

(Total 3 mark)