Geometry - Circle Area

Q1

A circle has a radius of 5 cm.
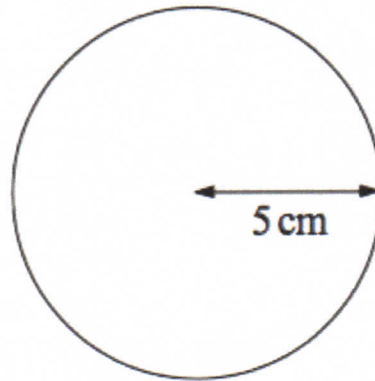

Diagram **NOT**
accurately drawn
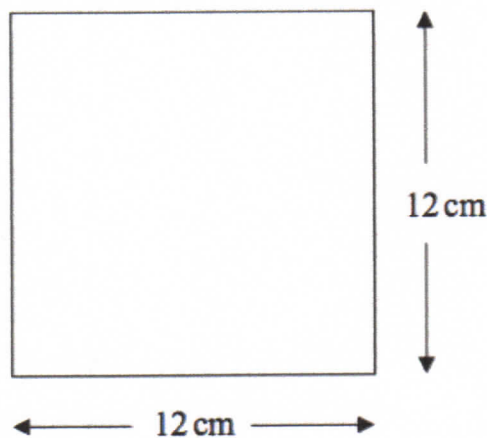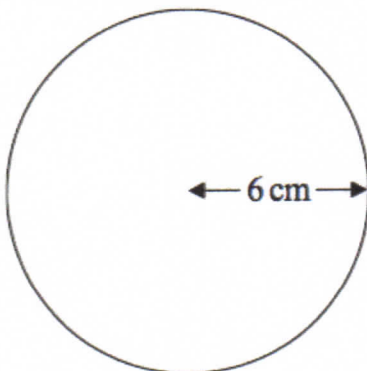
5 cm

Work out the area of the circle.
Give your answer correct to 3 significant figures.

.... cm²

(Total 2 marks)

Q2

←6 cm→

12 cm

12 cm

A circle has a radius of 6 cm.

A square has a side of length 12 cm.

Work out the difference between the area of the circle and the area of the square.
Give your answer correct to one decimal place.

.... cm²

(Total 4 marks)

Geometry - Circle Area

Q1

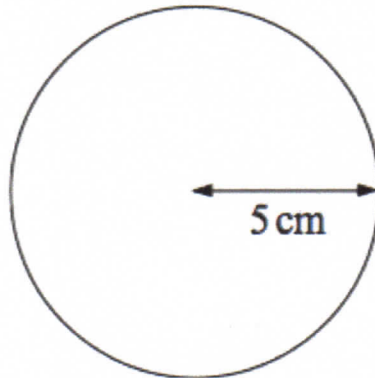A circle has a radius of 5 cm.

$Area = \pi r^2$

$= \pi \times 5^2$

$= 78.5398 \text{ cm}^2$

Diagram **NOT** accurately drawn

5 cm

Work out the area of the circle.
Give your answer correct to 3 significant figures.

........................78.5........................ cm²

(Total 2 marks)

Q2

← 6 cm →
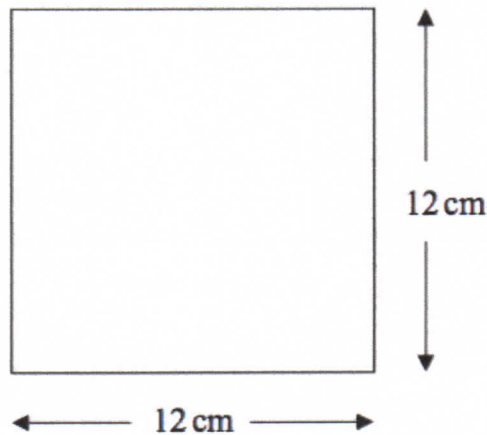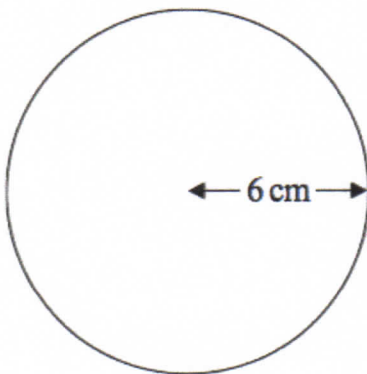
12 cm

12 cm

A circle has a radius of 6 cm. $\pi r^2 = \pi \times 6^2 = 113.097 \text{ cm}^2$

A square has a side of length 12 cm. $12 \times 12 = 144 \text{ cm}^2$

Work out the difference between the area of the circle and the area of the square.
Give your answer correct to one decimal place.

$144 - 113.097 = 30.903 \text{ cm}^2$

$= 30.9 \text{ cm}^2$

to 1 dec place

........................30.9........................ cm²

(Total 4 marks)