

- 1 The circumference of circle **B** is 90% of the circumference of circle **A**.
- (a) Find the ratio of the area of circle **A** to the area of circle **B**.

.....

(2)

Square **E** has sides of length e cm.
Square **F** has sides of length f cm.

The area of square **E** is 44% greater than the area of square **F**.

- (b) Work out the ratio $e:f$

.....

(2)

(Total for Question is 4 marks)

- 2 Write 37 cm^3 in mm^3

..... mm^3

(Total for Question is 1 mark)

- 3** A water tank is empty.
Anil needs to fill the tank with 2400 litres of water.

Company **A** supplies water at a rate of 8 litres in 1 minute 40 seconds.
Company **B** supplies water at a rate of 2.2 gallons per minute.

1 gallon = 4.54 litres

Company **A** would take more time to fill the tank than Company **B** would take to fill the tank.

How much more time?

Give your answer in minutes correct to the nearest minute.

..... minutes

(Total for Question is 4 marks)

