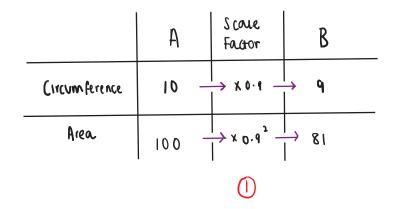
- 1. The circumference of circle **B** is 90% of the circumference of circle **A**.
 - (a) Find the ratio of the area of circle A to the area of circle B.

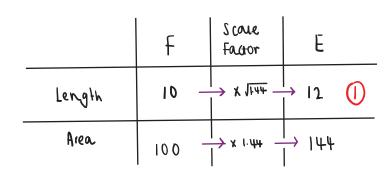


100:81

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



e : f

12 ngtn of E : 12 ngtn of F

11 : 10

: 6 : 5

6:5

(Total for Question is 4 marks)

2. Write 37 cm³ in mm³

$$1 \text{ cm} = 10 \text{ mm}$$
 $1^3 \text{ cm}^3 = 10^3 \text{ mm}^3$
 $1 \text{ cm}^3 = 1000 \text{ mm}^3$
 $1 \text{ cm}^3 = 1000 \text{ mm}^3$

37000 mm³

Between 13:30 and 14:48 there is 1 how 18 minutes

Convert everything to hows

1 hours 18 hours 18 hours 18 hours

1 hour 18 minutes -> 1 hour = 18 hours -> 1 + 18 hours -> 1.3 hours

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.

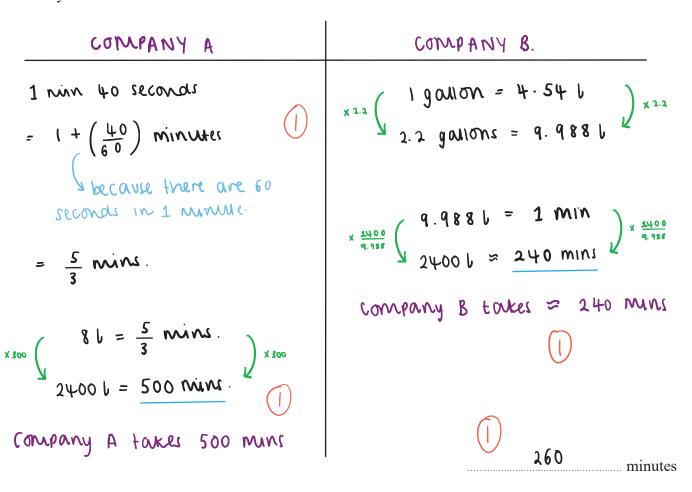
Company **B** supplies water at a rate of 2.2 gallons per minute.

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.



500 - 240 = 260

(Total for Question is 4 marks)

:. A takes 260 mins longer than B.