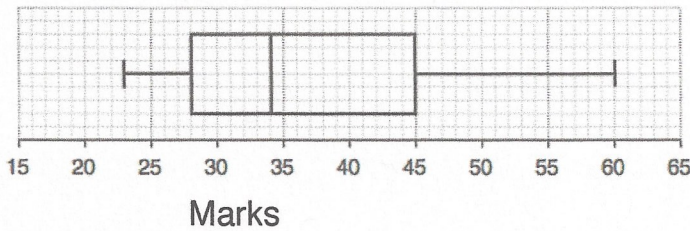


31st August



Corbettm@ths



$$UQ - LQ$$

$$45 - 28 = 17$$

Work out the interquartile range.

A fish tank has sprung a leak, at the base of the tank. 5% of the water is lost every minute.

How much water is lost from the tank after ten minutes?

$$100 \times 0.95^{10} = 59.87369$$

$$100 - 59.8737 = 40.1263\%$$

Here are the first and third terms of a different Fibonacci-type sequence

d e-d e 2e-d _ _

Work out an expression in terms of d and e for the fifth term

$$4^{th} \text{ term: } e + (e-d)$$

$$= 2e - d$$

$$5^{th} \text{ term: } (2e-d) + e$$

$$= 3e - d$$

Liquid A has a density of 0.85 g/cm^3
Liquid B has a density of 1.2 g/cm^3

200g of liquid A and 30g of liquid B are mixed for make liquid C. 230g

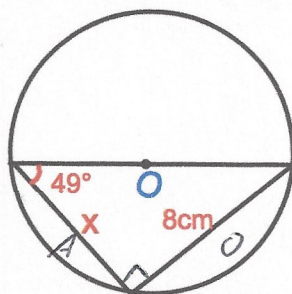
Work out the density of liquid C.

$$A(\text{volume}) = \frac{200}{0.85} = 235.294 \text{ cm}^3$$

$$B(\text{volume}) = \frac{30}{1.2} = 25 \text{ cm}^3$$

$$\text{Density of C: } \frac{230}{260.294} = 0.8836 \text{ g/cm}^3$$

$D^m V$



$T^o A$

Find x

$$x = \frac{8}{\tan 49}$$

$$= 6.9543 \text{ cm}$$