

22nd May



Corbettmaths

Make y the subject

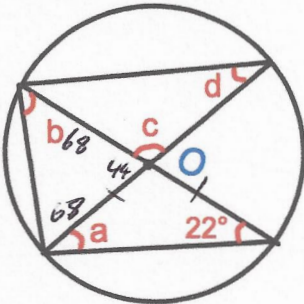
$$y + 3 = x(y + 2)$$

$$y + 3 = xy + 2x$$

$$y - xy = 2x - 3$$

$$y(1-x) = 2x - 3$$

$$y = \frac{2x - 3}{1 - x}$$



Find a

$$a = 22^\circ$$

Find b

$$90 + 22 = 112^\circ$$

$$180 - 112 = \underline{68^\circ}$$

Find c

$$136^\circ$$

Find d

$$22^\circ$$

Write down a value of n such that

$$6.4 \times 10^n$$

is a cube number

$$4 \times 4 \times 4 = 64$$

$$4 \times 10^2 \times 4 \times 10^2 \times 4 \times 10^2 \\ = 64 \times 10^6$$

$$6.4 \times 10^7$$

20 students sit a test.

The mean score of the 6 boys is 32 marks.

$$6 \times 32 = 192$$

The mean score of all 20 students is 40 marks.

$$20 \times 40 = 800$$

Work out the mean score of the girls

$$800 - 192 = 608$$

$$608 \div 14 = \underline{43.4286}$$