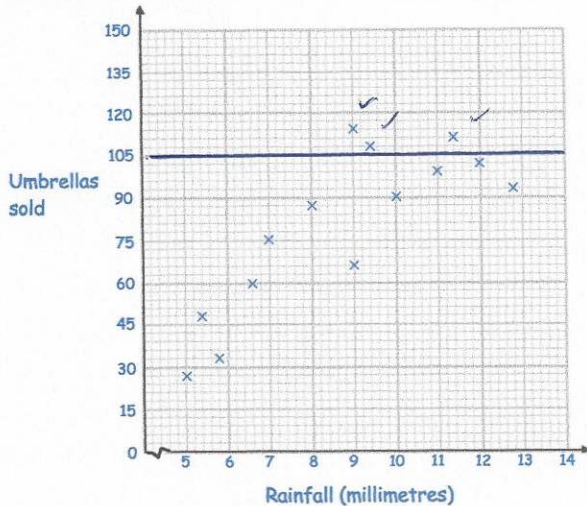


25th September



Corbettmaths



The scatter graph shows information about the number of umbrellas sold each week and the rainfall that week, in millimetres.

In how many weeks did the shop sell over 105 umbrellas?

3

Explain why it may **not** be appropriate to use your line of best fit to estimate the number of umbrellas sold in a week with 25mm of rainfall.

*we only have data for rainfall up to 12.5mm and 25mm is beyond the range of the data*

Simplify fully

$$7 \times 7^0 \times 7^{-1}$$

$$7 \times 1 \times \frac{1}{7} = 1$$

Factorise

$$4y^2 + 6y \quad 2y(2y + 3)$$

Factorise

$$y^2 - 1 \quad (y-1)(y+1)$$

Work out the size of each interior angle for a regular octagon.

$$\begin{aligned} 360 \div 8 &= 45^\circ \text{ (exterior)} \\ 180 - 45 &= 135^\circ \\ &= \end{aligned}$$

Work out the size of each interior angle for a regular 20 sided polygon.

$$\begin{aligned} 360 \div 20 &= 18^\circ \text{ (exterior)} \\ 180 - 18 &= 162^\circ \\ &= \end{aligned}$$