

8th January

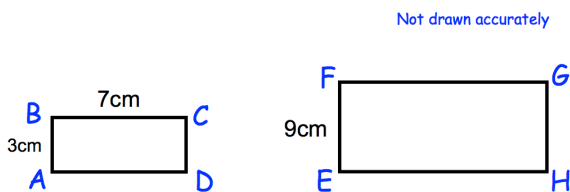
Corbettmaths

Given the probability of Paul scoring a penalty is 0.7 and he takes 30 penalties in a season, how many goals is he expected to score?

$$-3 < x \leq 1$$

x is an integer

Write down all the possible values of x .



Rectangles $ABCD$ and $EFGH$ are similar.

$$AB = 3\text{cm} \quad BC = 7\text{cm} \quad EF = 9\text{cm}$$

Work out the length of FG .

A line has equation $y = 3x + 4$

Write down the gradient of the line

Write down the y -intercept of the line

Factorise $x^2 + 4x - 12$

Factorise $x^2 - 25$