

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?

$$0.7 \times 30$$

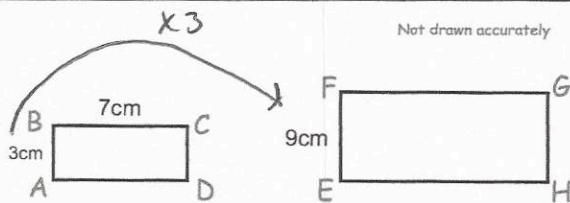
21

$$-3 < x \leq 1$$

x is an integer

Write down all the possible values of x.

-2, -1, 0, 1



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 .

$$7 \times 3 = 21\text{cm}$$

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

Write down the gradient of the line

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Write down the y-intercept of the line

(0, 4)

Factorise $x^2 + 4x - 12$

$$(x + 6)(x - 2)$$

Factorise $x^2 - 25$

$$(x + 5)(x - 5)$$