

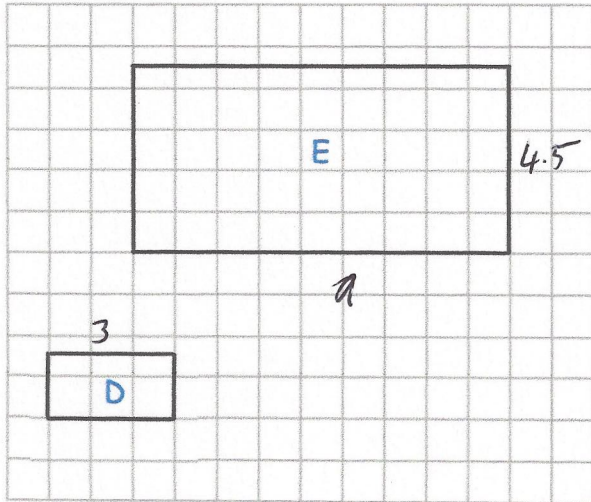
11th May



Corbettmaths

Give an example of a "continuous variable"

height
length of a table
time taken to run a race



Rectangle E is an enlargement of rectangle D on the centimetre grid.

What is the scale factor of the enlargement?

3

Rectangle E is enlarged by scale factor 10 to give rectangle F.

Write down the area of rectangle F.

$$90 \times 45 = 4050$$

Solve the simultaneous equations

$$\begin{aligned} 4x + 3y &= 5 & \times 5 \\ 2x - 5y &= 9 & \times 3 \end{aligned}$$

$$\begin{aligned} 20x + 15y &= 25 \\ 6x - 15y &= 27 \quad \text{add.} \\ \hline 26x &= 52 \\ x &= 2 \end{aligned}$$

$$40 + 15y = 25 \quad y = -1$$

Solve

$$x^2 + 5x - 14 = 0$$

$$(x + 7)(x - 2) = 0$$

$$x = -7 \text{ or } x = 2$$