



$$\frac{1}{2}(4+8) \times 5$$

$$6 \times 5 = 30$$

Calculate the area of the trapezium

$$30 \text{ cm}^2$$

Expand and simplify

$$(5y - 2)(2y + 3)$$

$$10y^2 + 15y - 4y - 6$$

$$10y^2 + 11y - 6$$

$$x = 10y + 14$$

Rearrange the formula to make y the subject

$$x - 14 = 10y$$

$$y = \frac{x - 14}{10}$$

A coin is flipped and a dice is rolled.

What is the probability of a tail and a 3

T1 T2 (T3) T4 T5 T6
H1 H2 H3 H4 H5 H6

$$\frac{1}{12}$$

$$\mathbf{a} = \begin{pmatrix} 5 \\ -4 \end{pmatrix} \quad \mathbf{b} = \begin{pmatrix} -1 \\ -2 \end{pmatrix}$$

$$4\mathbf{a} = \begin{pmatrix} 20 \\ -16 \end{pmatrix} \quad 2\mathbf{b} = \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$

Work out $4\mathbf{a} + 2\mathbf{b}$

$$\begin{pmatrix} 18 \\ -20 \end{pmatrix}$$