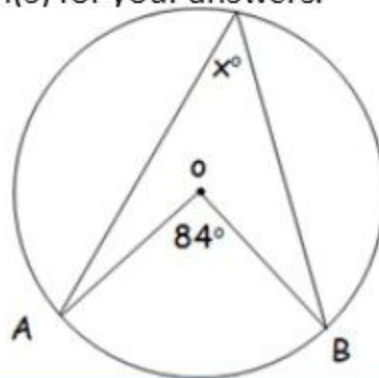


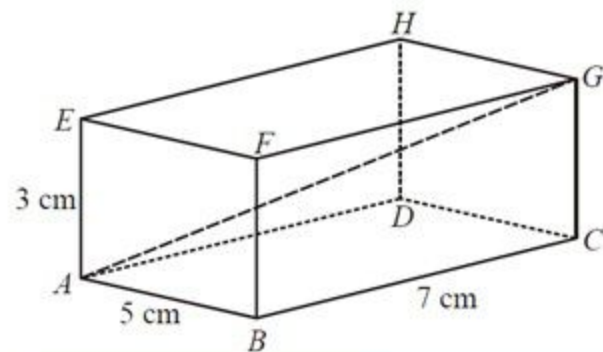
(a) Solve  $3x^2 - 2x - 13 = 0$  using the quadratic formula

(b) Solve  $4x^2 - 5x - 3 = 0$  using the quadratic formula

Calculate the size of  $x$ . Give reason(s) for your answers.



Calculate the length of DB

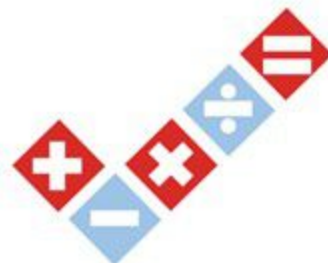


Write a line perpendicular to;

(a)  $y = 2x + 1$

(b)  $y = 6x - 3$

(c)  $y = \frac{1}{3}x - 3$



**BennettMaths**  
Engaging Learners

Grade 7 revision

Calculate;

$$\begin{pmatrix} 5 \\ 4 \end{pmatrix} + \begin{pmatrix} -2 \\ 2 \end{pmatrix}$$

Calculate;

$$\begin{pmatrix} 1 \\ 7 \end{pmatrix} - \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$

I want to take stratified sample of 250 people from the school. How many should I include in my sample from each year group?

Year	7	8	9	10	11
No of students	100	120	115	130	126

$y$  is directly proportional to  $x$ .  
Given that  $y = 36$  when  $x = 3$ ,  
find the value of  $y$  when  $x = 9$

Convert to fractions;

(a)  $0.\dot{3}$

(b)  $0.4\dot{2}9$

(c)  $0.48\dot{1}$