

m3 = 8 days to go!

12 Calculate the size of angle x in this quadrilateral.

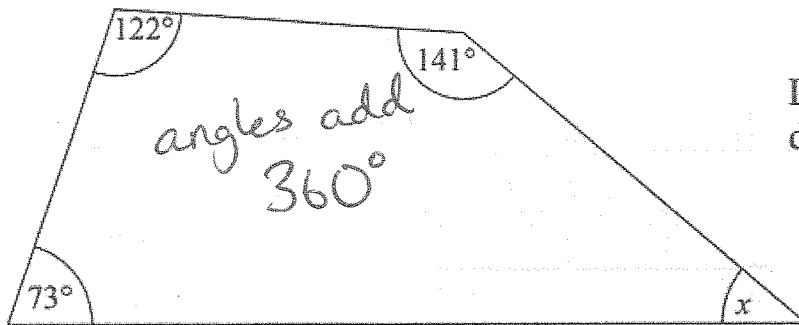


Diagram not drawn accurately

$$73 + 122 + 141 + x = 360 \quad \text{make an equation}$$

$$336 + x = 360$$

swap sides swap side

$$\textcircled{-336} \quad \textcircled{-336}$$

$$x = 24$$

$$\text{Answer } x = \underline{24}^\circ [2]$$

24 Solve $x^2 - 5x - 24 = 0$

Quadratic so there should be 2 answers:

Factorise

$$x^2 - 5x - 24$$

add
 -8

multiply
 $-8x + 3$

$$(x-8)(x+3) = 0$$

$$x-8=0$$

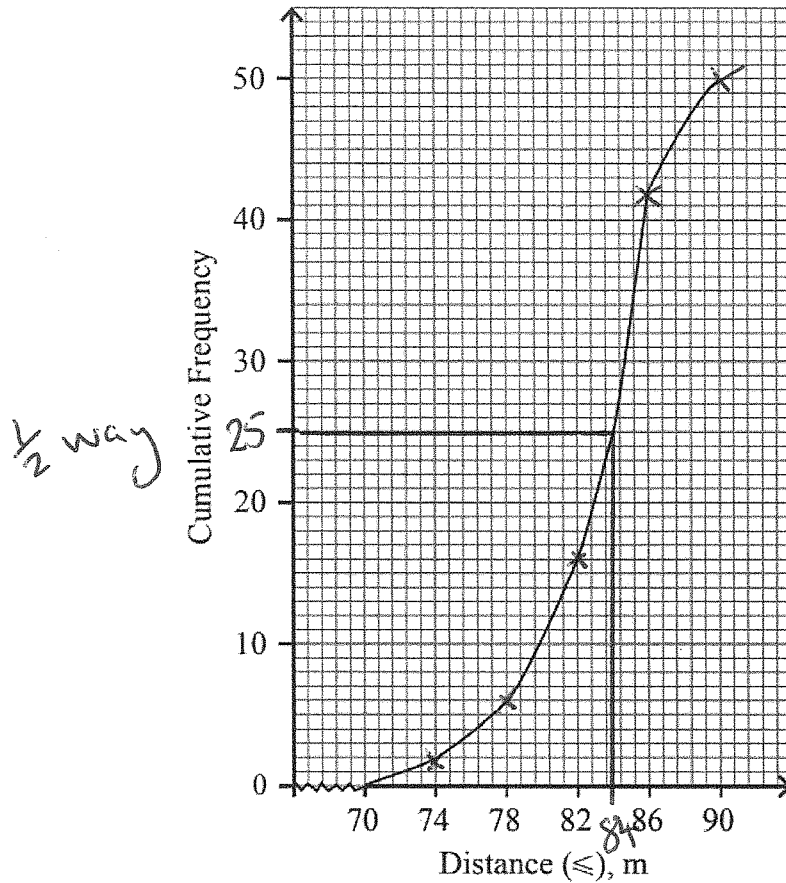
$$x=8$$

$$x+3=0$$

$$x=-3$$

$$\text{Answer } x = \underline{8 \text{ and } -3} [3]$$

18 The cumulative frequency graph shows the distances thrown by 50 competitors in a javelin competition.



Make sure you can use a cumulative frequency curve to make a box plot

(a) Use the graph to estimate the median distance thrown.

$\frac{1}{2}$ way

Answer 84 m [1]

(b) Use the graph to complete the two tables below.

(i)

Distance (less than or equal to), m	Cumulative Frequency
70	0
74	2
78	6
82	16
86	42
90	50

(ii)

Distance d (m)	Frequency
$66 < d \leq 70$	0
$70 < d \leq 74$	2
$74 < d \leq 78$	4
$78 < d \leq 82$	10
$82 < d \leq 86$	26
$86 < d \leq 90$	8