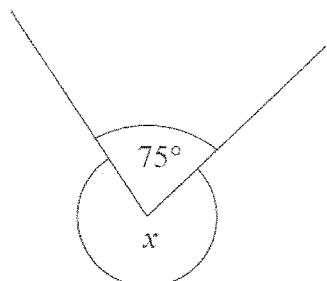


M2 = 26 days to go!

- 6 (a) Work out the size of the angle marked x .



angles around a point
add to 360°

$$75 + x = 360$$

diagram not
drawn accurately

$$\begin{array}{r} 360 \\ - 75 \\ \hline 285 \end{array}$$

Answer 285 $^\circ$ [1]

- (b) Circle the name of the quadrilateral with rotational symmetry of order 2

square

kite

parallelogram

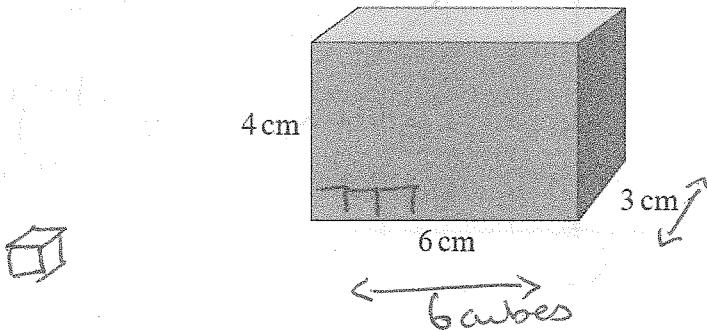
trapezium

[1]

Look at the box below.



- (c) (i) How many 1 cm cubes are needed to fill this box?



looks the same
2 times when
you spin it
around

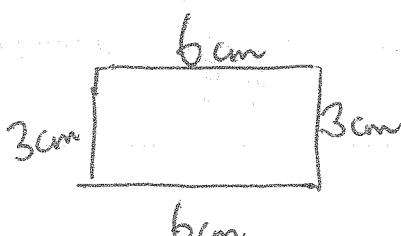
$$\text{Volume} = \text{length} \times \text{base} \times \text{height}$$

$$= 6 \times 3 \times 4$$

Answer 72 cubes [1]

- (ii) What is the perimeter of the top face of the box?

around the outside



Answer 18 cm [1]

$$6 + 3 + 6 + 3 = 18$$

- 20 A group of pupils do a first aid course over 8 nights.

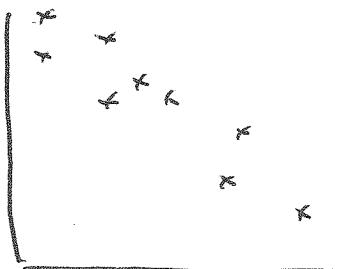
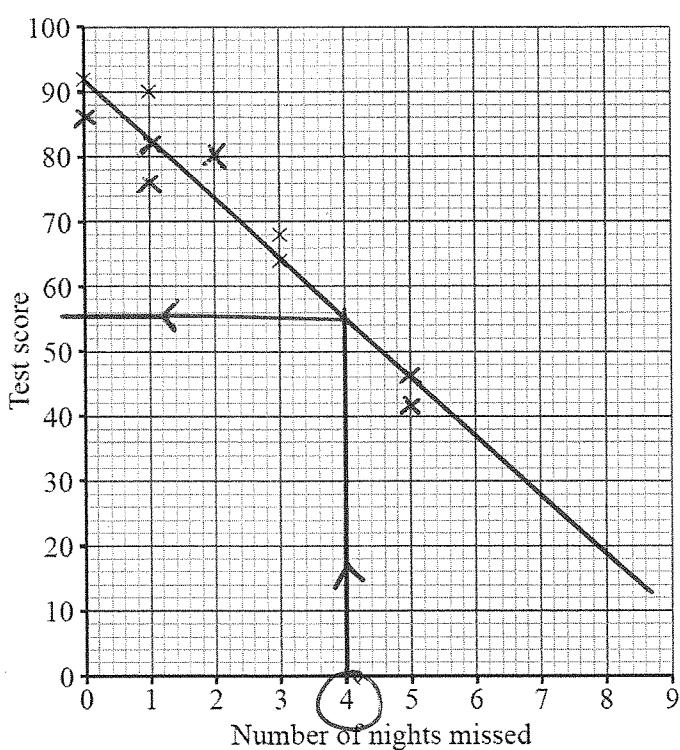
There is a test at the end of the course.

The table shows the number of nights each pupil misses and their test score.

Pupil	A	B	C	D	E	F	G	H	I	J
Number of nights missed	0	3	1	3	2	1	0	5	1	5
Test score	92	64	90	68	80	82	86	42	76	46

- (a) The first 4 points are plotted on the scatter graph.

Plot the last 6 points.



negative
correlation

[2]

- (b) Draw the line of best fit. $\frac{1}{2}$ point on each side. [1]

- (c) Another pupil missed 4 nights of the course.
Use the graph to estimate their test score.

use the graph

Answer 55 [1]

- (d) What type of correlation does your graph show?

positive

no correlation

Answer Negative [1]