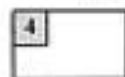


- (a) Translate rectangle R 4 squares to the left and 2 squares up.  
Label it A.

[1]

- (b) Rotate rectangle R through  $90^\circ$  clockwise about the origin.  
Label it B.

[3]



- 10 Miss Roberts gave her pupils a task.  
She wrote down the time, in seconds, for each pupil to complete the task.

73    35    43    89    52    48    29    64    60

- (a) (i) Write down the range.

(a)(i) ..... s [1]

- (ii) Calculate the mean time.  
Write your answer correct to 1 decimal place.

(ii) ..... s [4]

- (b) Two months later they did a similar task.  
The mean time was 59.7 seconds and the range 52 seconds.

Make one comment about their performance in these two tasks.

..... [1]

6

- 11 Here are the first four terms of a sequence.

8      11      18      29

- (a) Write down the next two terms.

(a) ..... [2]

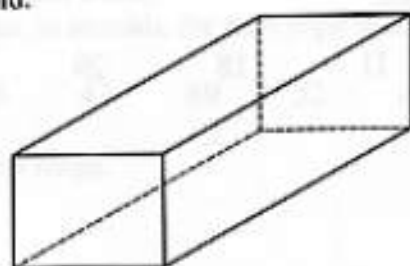
- (b) The first term of another sequence is 8.  
The term to term rule is **add 6**.

Find the fifth term.

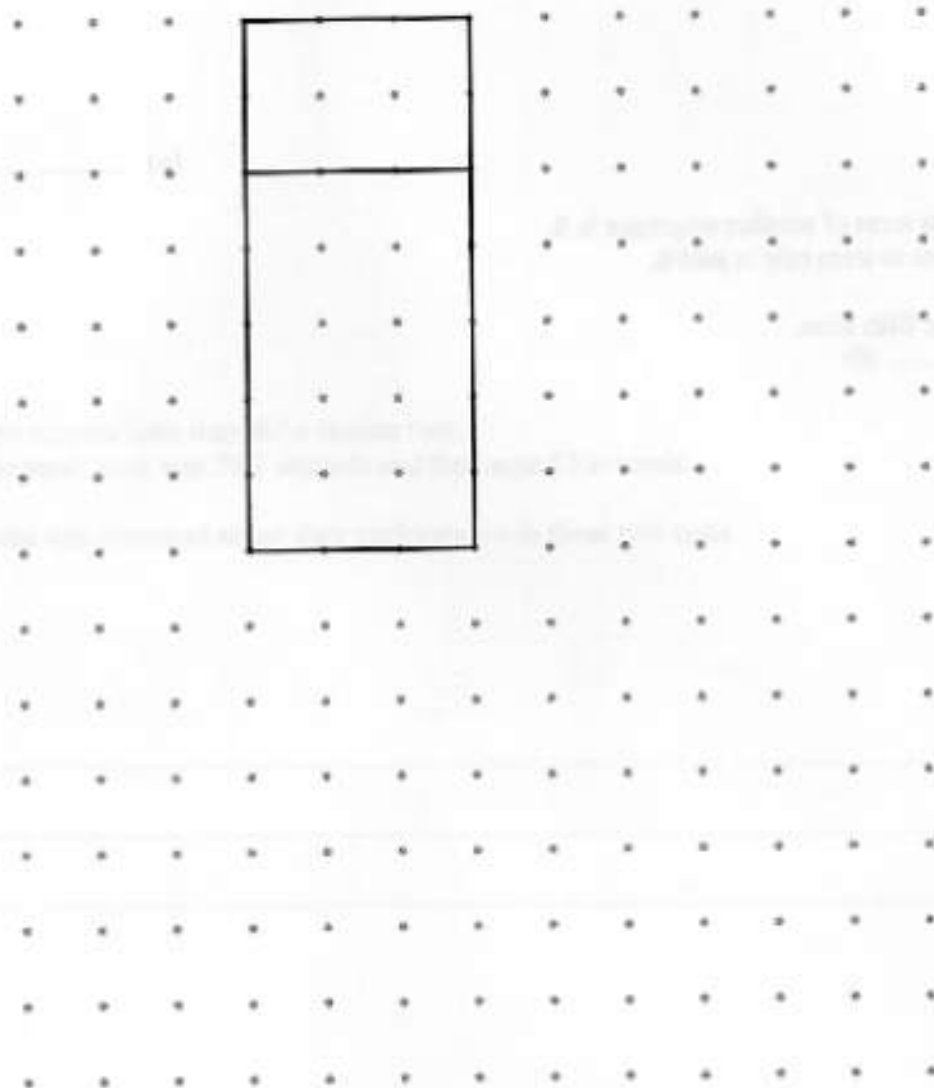
(b) ..... [1]

3

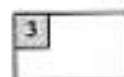
12 Here is a sketch of a cuboid.



Complete the net of the cuboid.



[3]



13 Solve.

(a)  $x - 6 = 15$

(a)  $x = \dots\dots\dots [1]$

(b)  $2x + 7 = 16$

(b)  $x = \dots\dots\dots [2]$

3

14 Sea water contains 3% salt.

What weight of salt is there in a jar containing 250 g of sea water?

[3]

3

TURN OVER FOR QUESTION 15

- 15 Glen goes on an activity day.  
The activities available are listed below.

*Morning:* clay modelling (C), painting (P), woodwork (W), needlecraft (N).

*Afternoon:* sculpture (S), design (D), electronics (E).

He chooses one morning activity and one afternoon activity.

- (a) Complete the table below showing all the different choices he could make.  
You may not need all the lines.

Morning	Afternoon
C	S
C	D

[2]

- (b) Explain why the probability that Glen will choose electronics in the afternoon may not be  $\frac{1}{3}$ .

.....

.....

.....[1]

3	
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