

1. Here is an arithmetic sequence.

$$6, 12, 18, 24, 30, \dots, \dots$$

(i) Write down the next two terms

(ii) What is the rule

(iii) What is the Nth term

.....

.....

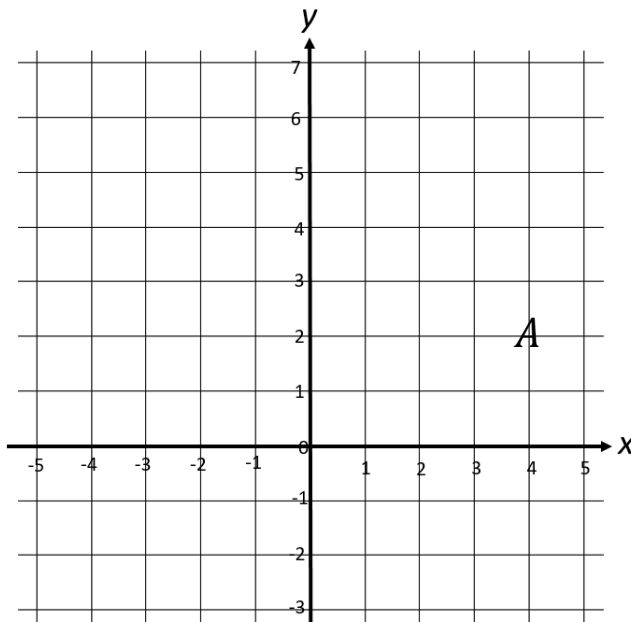
(3 marks)

2.

(a) Write down the coordinate A

.....

(b) Plot the coordinate B (-1, 5)



(2 marks)

3. Simplify $m + 2m + m + 3m$

.....

(1 mark)

4. Simplify $3 \times y \times 5 \times y$

.....

(1 mark)

5. $a = 4$ $b = 2$ $c = 5$

Work out the value of $2a + 4b + c^2$

.....

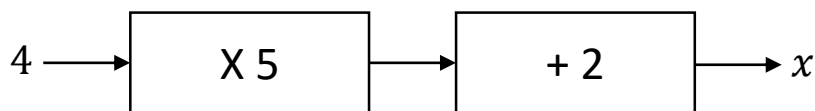
(2 marks)

6. Simplify $w^3 \times w^8$

.....

(1 mark)

7. Calculate



$x = \dots\dots\dots$

(1 mark)

8. Simplify $g \times g \times g$

$\dots\dots\dots$

(1 mark)

9. Expand $5(x + 1)$

$\dots\dots\dots$

(1 mark)

10. Factorise $6a + 10$

$\dots\dots\dots$

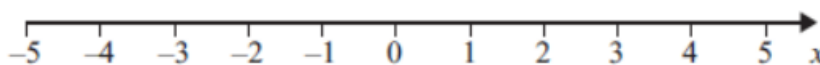
(2 marks)

11. Solve $x - 4 = 13$

$x = \dots\dots\dots$

(1 mark)

12. Show the inequality $x < -1$ on the number line below.

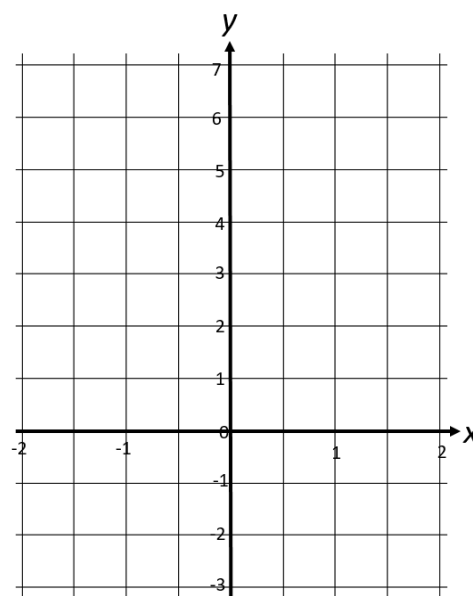


(1 mark)

13. Complete the table of values for $y = 2x - 1$

x	-2	-1	0	1	2
y					

On the grid draw the graph of $y = 2x - 1$



(4 marks)

Score =