1. Here is an arithmetic sequence.

$$2, 4, 6, 8, 10, ..., ...$$

   (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 (5 , -2)
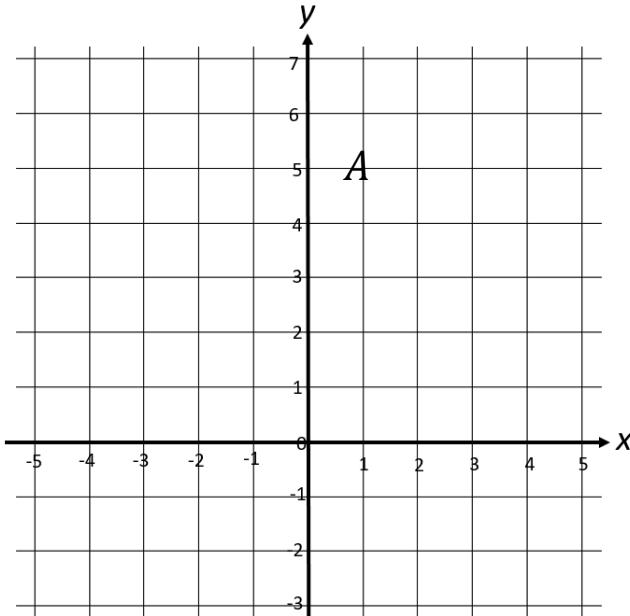
                                            (2 marks)

3. Simplify $a + a + a + a$

                                          ………………….

                                            (1 mark)

4. Simplify $5 \times e \times 4 \times f$

                                          ………………….

                                            (1 mark)

5. $a = 5$ $b = 3$ $c = 2$

     Work out the value of $3a + 2b$

                                          ………………….

                                            (2 marks)

6. Simplify $m^2 \times m^5$

                                          ………………….

                                            (1 mark)

7. Calculate

$$4 \longrightarrow \boxed{\text{X 3}} \longrightarrow \boxed{\text{+ 1}} \longrightarrow x$$
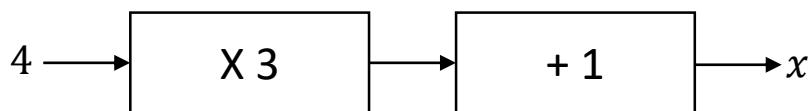
$x =$……………
(1 mark)

8. Simplify $y \times y$

…………………
(1 mark)

9. Expand $3(x + 2)$

…………………
(1 mark)

10. Factorise $4a + 8$

…………………
(2 marks)

11. Solve $x + 6 = 10$

$x =$……………
(1 mark)

12. Show the inequality $x < 3$ on the number line below.

$$\begin{array}{ccccccccccc} -5 & -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & x \end{array}$$
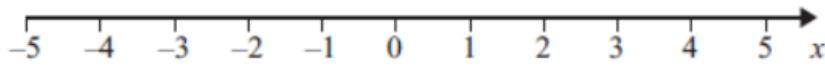
(1 mark)

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

x	-2	-1	0	1	2
y					
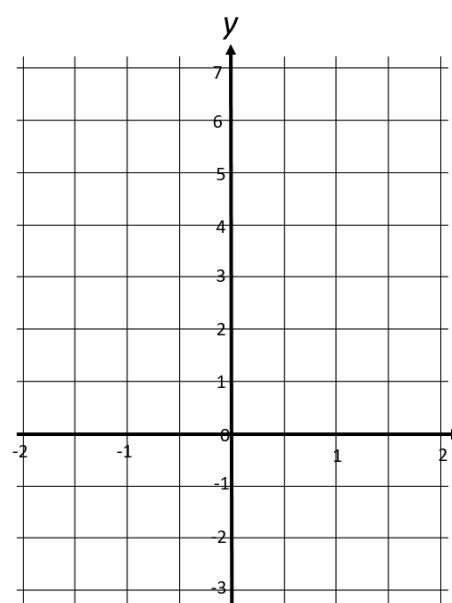
On the grid draw the graph of $y = 2x + 1$

(4 marks)

Score =