

1. Here is an arithmetic sequence.

7, 12, 17, 22, 27,

Find the Nth term.

.....

(1) Find the 10th term in the sequence?

.....

(3 marks)

2. Coordinates of point A = (3, 1) and coordinate B = (1, 16).

Write down the gradient of line segment AB

.....

(2 marks)

3. Simplify $4b + 10b - 16$

.....

(2 marks)

4. Simplify $a^2 + a^2$

.....

(1 mark)

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

Work out the value of $ab + 2c$

.....

(2 marks)

6. Simplify $4h^2 \times 3h^5$

.....

(2 marks)

7. Simplify $\frac{10e^{12}}{2e^2}$

.....

(2 marks)

8. Simplify $(3t^5)^2$

.....

9. Simplify $\frac{6a^4 \times 2a^6}{3a^2}$

.....

(2 marks)

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10. Expand $4(7y + 6)$

.....
(1 mark)

11.  $\quad + 8$

.....
(2 marks)

12. Expand $(x + 5)(x + 7)$

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(2 marks)

13. Factorise $y^2 - 4y + 4$

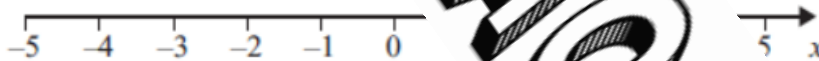
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(2 marks)

14. Solve $3x + 2 = 14$

$x = \dots\dots\dots$

(2 marks)

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



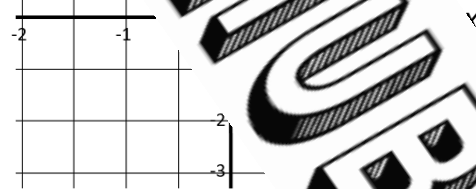
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(1 mark)

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

x	-2	-1	0	1	2
y					



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



.....
(2 marks)

Score =