

1. Here is an arithmetic sequence.

$$1, 7, 13, 19, 25, \dots$$

Find the Nth term.

.....

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

.....

(3 marks)

2. Coordinates of point A are $(-2, 3)$ and coordinate of point B is $(8, 7)$.

Write down the gradient of the line segment AB.

.....

(2 marks)

3. Simplify $6x + 2x - 4x$.

.....

(2 marks)

4. Simplify $2m^3 + 6m^3$.

.....

(1 mark)

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

Work out the value of $ab + 2c$.

.....

(2 marks)

6. Simplify $6n^7 \times 8n^{-2}$.

.....

(2 marks)

7. Simplify $\frac{24h^{10}}{3h^{-2}}$

.....

(2 marks)

8. Simplify $(10q^{-3})^2$

.....

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

.....

(2 marks)

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10. Expand $8(5 - 6y)$

.....
(1 mark)

11. $3x^2 - 15$

.....
(2 marks)

12. Expand $(x - 6)(x - 5)$

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(2 marks)

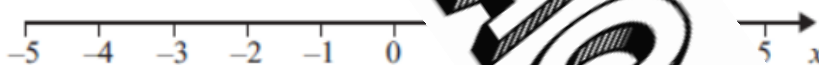
13. Factorise $16x^2 - 9$

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(2 marks)

14. Solve $8x + 5 = 17$

$x = \dots\dots\dots$
(2 marks)

15. Show the inequality $x + 1 < 4$ on the line below.



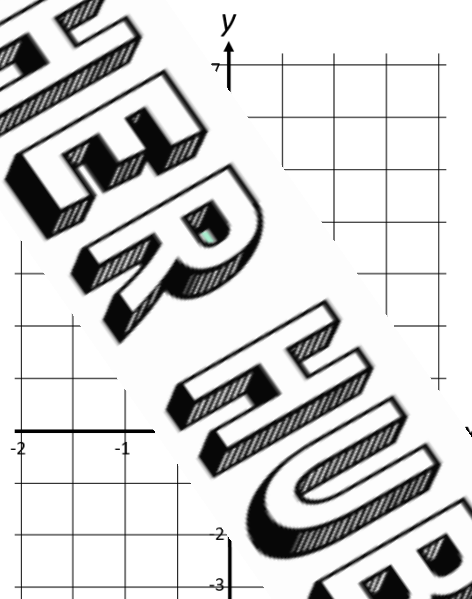
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(1 mark)

16. Complete the table of values for

$y = \frac{1}{2}x + 2$

x	-2	-1	0	1	2
y					

On the grid draw the graph of $y = \frac{1}{2}x + 2$



.....
(2 marks)

Score =