

1. Here is an arithmetic sequence.

$$5, 8, 11, 14, 17,$$

Find the Nth term.

(1)

What is the n^{th} term in the sequence?

.....

(3 marks)

2. Coordinates

Write down

the coordinates of point $B = (5, 9)$.

c_{AB}

**Available from
my TES
account**

.....

(2 marks)

3. Simplify

$$3a +$$

$$- 6b$$

.....

(2 marks)

4. Simplify

$$5m^2 + 3m^2$$

.....

(1 mark)

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

Work out the value of

$$ab + 2c$$

.....

(2 marks)

6. Simplify

$$5m^4 \times 6m^5$$

.....

(2 marks)

7. Simplify

$$\frac{12f^{12}}{4f^3}$$

.....

marks)

8. Simplify

$$(5r^4)^2$$

.....

9. Simplify

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

.....

(2 marks)

10. Expand $3(6x - 5)$

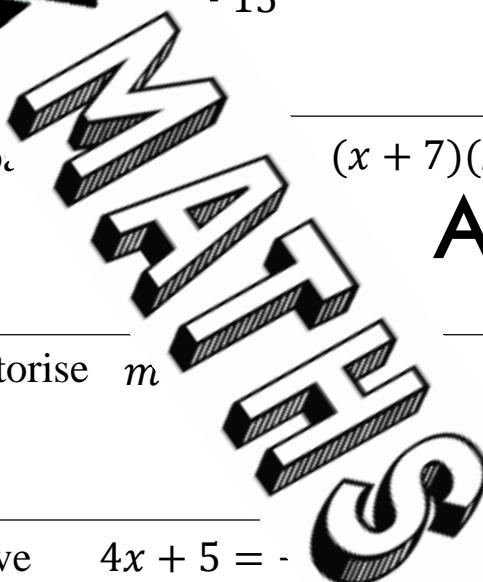


.....
(1 mark)

11. $15 \div 15$

.....
(2 marks)

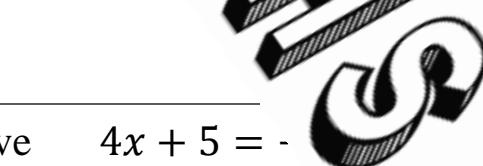
12. Expand $(x + 7)(x - 2)$



**Available from
my TES
account**

(2 marks)

13. Factorise m



.....

(2 marks)

14. Solve $4x + 5 = -1$



$x = \dots$

(2 marks)

15. Show the inequality $x \geq -1$



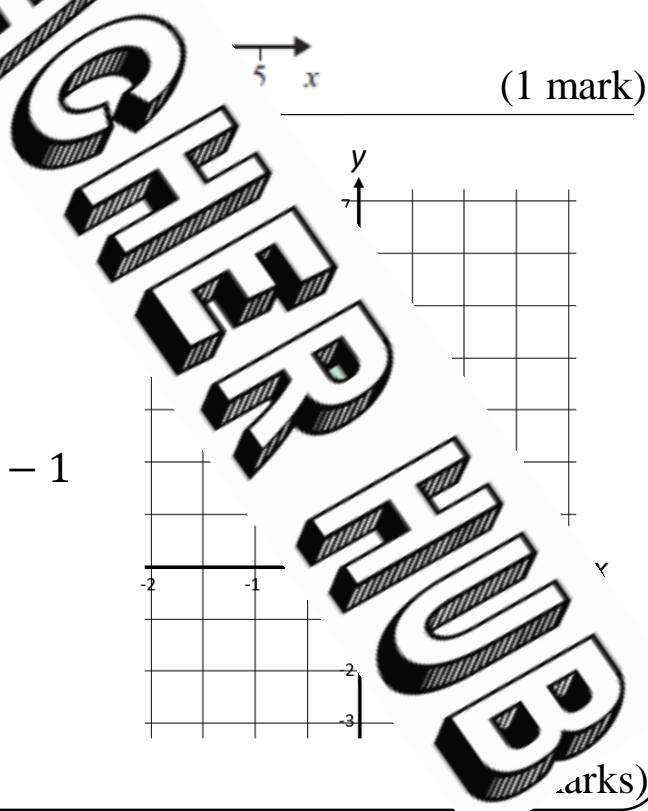
below.



(1 mark)

16. Complete the table of values for $y =$

x	-2	-1	0	1	2
y					



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

Score =