

1 (a) Expand $4(m + 2)$

Handwritten expansion of $4(m + 2)$. The expression $4(m + 2)$ is written in blue. Two purple curved arrows originate from the 4 and point to m and 2 respectively. The result $= 4m + 8$ is also written in blue. A red circle containing the number 1 is placed at the end of the equation.

$$4(m + 2) = 4m + 8 \quad (1)$$

$$4m + 8$$

(1)

(Total for Question 1 is 1 marks)

2 (e) Expand $4(3g + 1)$

Handwritten expansion of $4(3g + 1)$. The expression $4(3g + 1)$ is written in blue. Two purple curved arrows originate from the '4' and point to '3g' and '1' respectively. Below this, the result $12g + 4$ is written in blue.

$$4(3g + 1)$$
$$12g + 4$$

Handwritten result $12g + 4$ in blue. To the right of the expression is a red circle containing the number 1. A horizontal dotted line is drawn below the expression and the circled 1.

$$12g + 4 \quad \textcircled{1}$$

(1)

(Total for Question 2 is 1 marks)

3 (c) Expand and simplify $(x + 2)(x - 5)$

$$(x+2)(x-5)$$

$$= x^2 - 5x + 2x - 10 \quad (1)$$

$$= x^2 - 3x - 10$$

$$\underline{x^2 - 3x - 10} \quad (1)$$

(2)

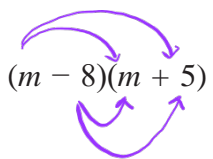
(Total for Question 3 is 2 marks)

4 (a) Expand $e(3e - 5)$

$$\frac{3e^2 - 5e}{(1)}$$

(Total for Question 4 is 1 marks)

5 (a) Expand and simplify $(m - 8)(m + 5)$



$$m^2 + 5m - 8m - 40 \quad (1)$$

$$= m^2 - 3m - 40 \quad (1)$$

$$m^2 - 3m - 40$$

(2)

(Total for Question 5 is 2 marks)

6 (a) Expand

$$x(5 - x)$$

$$5x - x^2$$

$$5x - x^2$$



(1)

(Total for Question 6 is 1 marks)

7 (a) Expand and simplify $3x(2x + 3) - x(3x + 5)$

$$6x^2 + 9x - 3x^2 - 5x \quad (1)$$

$$6x^2 - 3x^2 + 9x - 5x$$

$$3x^2 + 4x \quad (1)$$

$$3x^2 + 4x$$

(2)

(Total for Question 7 is 2 marks)

8 (a) Expand $5(3a + 4)$

$15a + 20$

$15a + 20$ ①

(1)

(Total for Question 8 is 1 marks)

9 (c) Expand $4t(3t - 2)$

$$= 12t^2 - 8t \quad (2)$$

$$12t^2 - 8t$$

(2)

(d) Expand and simplify $(5x - 2)(x + 4)$

$$= 5x^2 + 20x - 2x - 8 \quad (1)$$

$$= 5x^2 + 18x - 8 \quad (1)$$

$$5x^2 + 18x - 8$$

(2)

(Total for Question 9 is 4 marks)

10 (a) Expand $x(4 - x)$

$$4x - x^2 \quad (1)$$

$$4x - x^2$$

(1)

(Total for Question 10 is 1 marks)

11 (a) Expand and simplify $4x(2x + 5) - 3x(2x - 3)$

$$= 4x(2x + 5) - 3x(2x - 3)$$

$$= 8x^2 + 20x - 6x^2 + 9x \quad (1)$$

$$= 2x^2 + 29x \quad (1)$$

$$2x^2 + 29x$$

(2)

(Total for Question 11 is 2 marks)

12 (a) Expand $3c^3(c + 4)$

$$3c^4 + 12c^3$$

$$\frac{3c^4 + 12c^3}{(2)}$$

(Total for Question 12 is 2 marks)

13 (c) Expand $3(x + 4)$

$$3x + 12$$

$$3x + 12 \quad \textcircled{1}$$

.....
(1)

(Total for Question 13 is 1 marks)

14 (a) Expand and simplify $(n - 6)(n + 4)$

$$n^2 + 4n - 6n - 24 \quad (1)$$

$$n^2 - 2n - 24 \quad (1)$$

$$n^2 - 2n - 24$$

(2)

(Total for Question 14 is 2 marks)

15 (c) Expand $x(x + 5)$

$$\frac{x^2 + 5x}{(1)}$$

(Total for Question 15 is 1 marks)

16 (b) Expand $x(8 - x)$

$$8x - x^2 \quad (1)$$

$$\frac{8x - x^2}{(1)}$$

(Total for Question 16 is 1 marks)

17 (a) Expand and simplify $x(2x - 3) + 7(2x + 1) - 5$

$$\begin{aligned}
 & 2x^2 - 3x + 14x + 7 - 5 \quad (1) \\
 \therefore & 2x^2 + 11x + 2 \quad (1)
 \end{aligned}$$

$$\begin{aligned}
 & 2x^2 + 11x + 2 \\
 & \hline
 & (3)
 \end{aligned}$$

(b) Expand and simplify $(y + 4)(2 - y)$

$$\begin{aligned}
 & 2y - y^2 + 8 - 4y \quad (1) \\
 \therefore & -y^2 - 4y + 2y + 8 \\
 \therefore & -y^2 - 2y + 8
 \end{aligned}$$

$$\begin{aligned}
 & 8 - 2y - y^2 \quad (1) \\
 & \hline
 & (2)
 \end{aligned}$$

(Total for Question 17 is 5 marks)

18 (a) Expand $x(10 - x)$

$$\begin{array}{r} 10x - x^2 \\ \hline (1) \end{array}$$

(Total for Question 18 is 1 marks)

19 (d) Expand $5(2 + 3h)$

$$10 + 15h$$

$$10 + 15h \quad \textcircled{1}$$

(1)

(Total for Question 19 is 1 marks)

20 (a) Expand $4x(x - 5)$

$$= 4x^2 - 20x$$

$$4x^2 - 20x \quad \textcircled{1}$$

(1)

(Total for Question 20 is 1 marks)

21 (b) Expand $p(p - 2)$

$$\frac{p^2 - 2p}{(1)}$$

(e) Expand and simplify $(x + 5)(x - 7)$

$$\begin{aligned} & x^2 - 7x + 5x - 35 \quad (1) \\ & = x^2 - 2x - 35 \quad (1) \end{aligned}$$

$$\frac{x^2 - 2x - 35}{(2)}$$

(Total for Question 21 is 3 marks)

22 (a) Expand $x(3 - x)$

$$3x - x^2$$

①

(1)

(Total for Question 22 is 1 marks)