Expanding & Simplifying

36 marks

1. Simplify

    (i) $c + c + c + c$ ....

    (ii) $p \times p \times p \times p$ ....

    (iii) $2r \times 5p$ ....

    (Total 3 marks)

2. (a) Simplify

    $$2x \times y \times 3$$

    ....

    (1)

    (b) Simplify

    $$5x + 3y - 2x + y$$

    ....

    (2)

    (c) Multiply out

    $$5(3x + 7)$$

    ....

    (1)

    (Total 4 marks)

3. (a) Simplify $4a + 5b - 3b + a$

    ....

    (2)

    (b) Simplify $x^3 + x^3$

    ....

    (1)

    (Total 3 marks)

4. (a) Simplify $5p + 2q - 3p - 3q$

....
(2)

$y = 5x - 3$

(b) Find the value of x when $y = 4$

$x = $ ....
(2)
(Total 4 marks)

5. (a) Simplify

(i) $3g + 5g$

....
(ii) $2r \times 5p$

....
(2)

(b) Expand $5(2y - 3)$

....
(1)

(c) Expand and simplify

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

....
(2)
(Total 5 marks)

6. (a) Simplify $4x + 7y + 2x - 3y$

....
(2)

(b) Simplify $2pq + pq$

....
(1)
(Total 3 marks)

7. (a) Simplify

(i) $3a + 4b - 2a - b$

....

(ii) $5x^2 + 2x - 3x^2 - x$

....

(4)

(b) Expand the brackets

(i) $4(2x - 3)$

....

(ii) $p(q - p^2)$

....

(2)

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

....

(2)

(Total 8 marks)

8. (a) Simplify

    (i) $e + f + e + f + e$

                                           ....

    (ii) $p^2 + p^2 + p^2$

                                           ....

                                                                   (2)

(b) Work out the value of $5x + 1$ when $x = -3$

                                         ....

                                                                     (2)
                                                   (Total 4 marks)

9. (a) Simplify $y + y$

                                         ....
                                                                      (1)

(b) Simplify $p^2 + p^2 + p^2$

                                         ....
                                                                      (1)
                                                   (Total 2 marks)