

Name:

Exam Style Questions

Expanding Brackets



Equipment needed: Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 13



Answers and Video Solutions



1. Expand $4(y + 2)$



$$\frac{4y + 8}{(1)}$$

2. Expand $2(h - 4)$



$$\frac{2h - 8}{(1)}$$

3. Expand $5(2w + 3)$



$$\frac{10w + 15}{(1)}$$

4. Expand $3(2y - 1)$



$$\frac{6y - 3}{(1)}$$

5. Expand $5(2x + 7)$



$$\begin{array}{r} 10x + 35 \\ \hline (1) \end{array}$$

6. Expand $3(10 - 3y)$



$$\begin{array}{r} 30 - 9y \\ \hline (1) \end{array}$$

7. Expand $6(3 - 2x)$



$$\begin{array}{r} 18 - 12x \\ \hline (1) \end{array}$$

8. Expand $2(3w - 5y)$



$$\begin{array}{r} 6w - 10y \\ \hline (1) \end{array}$$

9. Expand $4(2m - 3p)$



$$\underline{8m - 12p}$$

(1)

10. Multiply out $x(x + 3)$



$$\underline{x^2 + 3x}$$

(1)

11. Expand $a(a - 9)$



$$\underline{a^2 - 9a}$$

(1)

12. Expand $y(3y + 5)$



$$\underline{3y^2 + 5y}$$

(1)

13. Expand $5y(2y + 1)$



$$\frac{10y^2 + 5y}{(2)}$$

14. Expand $3x(3x - 2)$



$$\frac{9x^2 - 6x}{(2)}$$

15. Expand $8x(2x - 5)$



$$\frac{16x^2 - 40x}{(2)}$$

16. Multiply out $-3(y + 2)$



$$\frac{-3y - 6}{(1)}$$

17. Expand $6x(y - 2)$



$$\frac{6xy - 12x}{(2)}$$

18. Expand $9e(2f - 3)$



$$\frac{18ef - 27e}{(2)}$$

19. Expand $-2(y - 4)$



$$\frac{-2y + 8}{(1)}$$

20. Expand and simplify $3(x + 5) + 2(x + 1)$



$$3x + 15 + 2x + 2$$

$$\frac{5x + 17}{(2)}$$

21. Expand and simplify $4(x - 1) + 3(2x + 5)$



$$4x - 4 + 6x + 15$$
$$10x + 11$$

$$\frac{10x + 11}{(2)}$$

22. Expand $y(y^2 + 3)$



$$\frac{y^3 + 3y}{(1)}$$

23. Expand $2w(3w^2 - 5)$



$$\frac{6w^3 - 10w}{(2)}$$

24. Expand $y^2(8 - 2y)$



$$\frac{8y^2 - 2y^3}{(2)}$$

25. Expand $2x^2(7x + 3)$



$$14x^3 + 6x^2$$

$$\frac{14x^3 + 6x^2}{(2)}$$

26. Expand $4x^2(2x - 5)$



$$\frac{8x^3 - 20x^2}{(2)}$$

27. Expand $a(3a + 2ac)$



$$\frac{3a^2 + 2a^2c}{(1)}$$

28. Expand and simplify $7(x + 4) + 5(3 - 2x)$



$$7x + 28 + 15 - 10x$$

$$\frac{-3x + 43}{(2)}$$

or

$$43 - 3x$$

29. Simplify $19w - (5 - 4w)$



$$19w - 5 + 4w$$

$$23w - 5$$

$$\begin{array}{r} 23w - 5 \\ \hline \end{array} \quad (2)$$

30. Expand and simplify $2(7y - 3x) - 8(x - 4y)$



$$14y - 6x - 8x + 32y$$

$$\begin{array}{r} 46y - 14x \\ \hline \end{array} \quad (2)$$

31. Expand $w^5(w^4 + 3)$



$$\begin{array}{r} w^9 + 3w^5 \\ \hline \end{array} \quad (2)$$