Name:

Level 2 Further Maths

Expanding Brackets

Corbettmaths

Ensure you have: Pencil or pen

Guidance

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

Revision for this topic

www.corbettmaths.com/more/further-maths/

1. (a) Expand and simplify $2(3x + 1) + 4(9 - x)$

.....

(2)

(b) Expand $w^4(w^2 + 3)$

.....

(2)

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

.....

(2)

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3. Expand and simplify $(m - 3)(2m + 3)$

.....

(3)

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

……..

(3)

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

……..

(3)

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6. Expand and simplify $(6y - 5)(3y + 2) + (1 - y)(2 - y)$

……..

(3)

7. Expand and simplify $(2x + y)^2 - (2x - y)^2$

.....

(3)

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8. Expand and simplify $(x^2 + 3x - 4)(3x - 4)$

.....

(3)

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9. Expand and simplify $2xy(x + 2y)(3x - y)$

.....

(3)

10. $ax - 2(x + b) + 8 = 10(x + 2)$

a = …….. b = ……..

(4)

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11. $2a(3x - 1) + 3(ax + 7) \equiv 36x + b$

Find the values of *a* and *b*

a = …….. b = ……..

(4)

12. (a) Expand $(y + p)(y - q)$

.....

(1)

(b) $y^2 + ay + b \equiv (y + p)(y - q)$

Write *a* and *b* in terms of *p* and *q*

a = ...

b = ...

(2)

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13. Expand and simplify $(x + 4)(4x - 3) - 2(x - 5)^2$

.....

(3)

14. Simplify $(6x + 15)^2 - (5x - 10)^2 + 20x - 1$

.....

(4)

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15. Expand and simplify $(4xy + 3xy^2 - 2y)(7x + x^2)$

.....

(4)

16. Expand and simplify $\frac{2}{x}(2x^3 + \frac{x^2}{2} + 3x)$

.....

(3)