Name:

Level 2 Further Maths

Expanding Brackets using Pascal's Triangle

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. Use Pascal's triangle to expand $(x + y)^4$

....
(3)

2. Use Pascal's triangle to expand $(x + y)^5$

....
(3)

3. Use Pascal's triangle to expand $(x + 1)^3$

....

(3)

4. Use Pascal's triangle to expand $(2 + y)^4$

....

(4)

5. Use Pascal's triangle to expand $(1 + w)^6$

....
(3)

6. Use Pascal's triangle to expand $(3 + y)^5$

....
(4)

7. Use Pascal's triangle to expand $(x - y)^4$

....
(4)

8. Use Pascal's triangle to expand $(x - 2)^5$

....
(4)

9.   Use Pascal's triangle to expand $(2x + 1)^3$

....
(4)

10.   Use Pascal's triangle to expand $(5x + 3)^4$

....
(4)

11.   Use Pascal's triangle to expand $(3x - 2)^3$

....
(4)

12.   Use Pascal's triangle to expand $(10 - 3x)^4$

....
(4)

13. Use Pascal's Triangle to work out the coefficient of x^3 in the expansion of $(1+5x)^4$

....

(3)

14. Use Pascal's Triangle to work out the coefficient of x^2 in the expansion of $(2+3x)^5$

....

(3)

15. Use Pascal's Triangle to work out the coefficient of x^4 in the expansion of $(2 - x)^6$

....
(3)

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16. Use Pascal's Triangle to work out the coefficient of x^2 in the expansion of $(2x - 7)^5$

....
(3)

17. The coefficient of the x^3 term in the expansion of $(x + a)^4$ is 256

Work out the value of a

....

(3)

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18. The coefficient of the x^4 term in the expansion of $(a + 2x)^5$ is 400

Work out the value of a

....

(3)

19.   The coefficient of the x^2 term in the expansion of $(2x + a)^5$ is -1080

Work out the value of a

....

(3)

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20.   The coefficient of the x^2 term in the expansion of $(x + a)^6$ is 240

Find the possible values of a

....

(4)

21. The coefficient of the x^3 term in the expansion of $(2x + a)^5$ is 3920

Find the possible values of a

....

(4)