JP Maths Revision

Attempt the paper before watching the solutions!

https://www.youtube.com/@JPMathsRevision

FOUNDATION / HIGHER TIER

Expanding Double Brackets

INSTRUCTIONS

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

INFORMATION

- The marks for **each** question are shown in brackets– *use this as a guide as to how much time to spend on each question.*

ADVICE

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

You've got this!

1. Expand and simplify $(x + 1)(x + 2)$.

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(Total for Question 1 is 2 marks)

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

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(Total for Question 2 is 2 marks)

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3. Expand and simplify $(x + 7)(2x + 1)$

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(Total for Question 3 is 2 marks)

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

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(Total for Question 4 is 2 marks)

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

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(Total for Question 5 is 2 marks)

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6. Expand and simplify $(2x - 5)(x - 5)$

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(Total for Question 6 is 2 marks)

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7. Expand and simplify $(x + 4)(x - 4)$

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(Total for Question 7 is 2 marks)

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8. Expand and simplify $(5x - 3)(2x - 1)$

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(Total for Question 8 is 2 marks)

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9. Expand and simplify $(x - 1)^2$

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(Total for Question 9 is 2 marks)

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10. Expand and simplify $(2x + 1)^2$

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(Total for Question 10 is 2 marks)

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11. Expand and simplify $(4x - 1)(5x - 6)$

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(Total for Question 11 is 2 marks)

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12. Expand and simplify $(2x - 1)(2x + 1)$

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(Total for Question 12 is 2 marks)

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

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(Total for Question 13 is 2 marks)

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14. Expand and simplify $(x + 1)(x - 2) + (x + 7)(x - 3)$

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(Total for Question 14 is 3 marks)

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

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(Total for Question 15 is 3 marks)

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16. A triangle has a base $(x + 3)\ cm$ and a height $(9x + 2)\ cm$.

Form an expression for the area, giving your answer in the form $ax^2 + bx + c$ where a, b and c are values to be determined.

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(Total for Question 16 is 3 marks)