JP Maths Revision

Attempt the paper before watching the solutions!

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

FOUNDATION / HIGHER TIER

Expanding Single 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 $2(x + 3)$

$2x+6$

(Total for Question 1 is 1 mark)

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2. Expand $6(y - 2)$

$6y-12$

(Total for Question 2 is 1 mark)

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

$-3x+21$

(Total for Question 3 is 1 mark)

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4. Expand $5(a + b)$

$5a+5b$

(Total for Question 4 is 1 mark)

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

$-7x+14$

(Total for Question 5 is 1 mark)

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

$-2x + 6y$

(Total for Question 6 is 1 mark)

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7. Expand $9(2a + 3b)$

$18a + 27b$

(Total for Question 7 is 1 mark)

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8. Expand $8(x + 11y)$

$8x + 88y$

(Total for Question 8 is 1 mark)

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9. Expand $3(a + b + c)$

$3a + 3b + 3c$

(Total for Question 9 is 1 mark)

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10. Expand $-3(2a + 3c)$

$-6a - 9c$

(Total for Question 10 is 1 mark)

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11. Expand $-6(3a - 4c)$

$-18a + 24c$

(Total for Question 11 is 1 mark)

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12. Expand $x(x + 8)$

$x^2 + 8x$

(Total for Question 12 is 1 mark)

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13. Expand $2x(2x + 3)$

$4x^2 + 6x$

(Total for Question 13 is 1 mark)

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14. Expand $a(2a - 3b)$

$2a^2 - 3ab$

(Total for Question 14 is 1 mark)

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15. Expand $5x(x + y)$

$5x^2 + 5xy$

(Total for Question 15 is 1 mark)

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16. Expand and simplify $9(3a + 2b) + 4(3a + b)$

$27a + 18b + 12a + 4b$

$= 39a + 22b$

$39a + 22b$

(Total for Question 16 is 2 marks)

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

$8x + 12y + 10x - 5y$

$18x + 7y$

$18x + 7y$

(Total for Question 17 is 2 marks)

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18. Expand and simplify $7(x - 1) + 3(2x - 5)$

$7x - 7 + 6x - 15$

$13x - 22$

$13x - 22$

(Total for Question 18 is 2 marks)

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

$-x^2 - x - 2x^2 + 18x$

$-3x^2 + 17x$

$-3x^2 + 17x$

(Total for Question 19 is 2 marks)

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20. Expand and simplify $3(x + 1) - 6(2x + 3)$

$3x + 3 - 12x - 18$

$-9x - 15$

$-9x - 15$

(Total for Question 20 is 2 marks)

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

$-3x + 3 - 8x + 4$

$-11x + 7$

(Total for Question 21 is 2 marks)
