

Expanding and Factorising Single Brackets

GCSE Mathematics • **Foundation Tier** • Grades 2–3 • Non-calculator

Name:

Class:

Total: / 47

Show all your working. Marks are given for correct method as well as the final answer.

1. Expand $4(x + 3)$. [2 marks]

Answer:

2. Expand $5(y - 2)$. [2 marks]

Answer:

3. Expand $x(x + 6)$. [2 marks]

Answer:

4. Expand $3x(x - 4)$. [2 marks]

Answer:

5. Expand $-2(x + 5)$. [2 marks]

Answer:

6. Expand $-3(2x - 7)$. [2 marks]

Answer:

7. Expand $2x(3x + 5)$. [2 marks]

Answer:

8. Expand and simplify $3(x + 2) + 4(x + 5)$. [3 marks]

Answer:

9. Expand and simplify $5(2x + 1) - 2(x + 4)$. [3 marks]

Answer:

10. Expand and simplify $x(x + 3) + 2(x + 3)$. [3 marks]

Answer:

11. Factorise $3x + 12$. [2 marks]

Answer:

12. Factorise $10y - 15$. [2 marks]

Answer:

13. Factorise $x^2 + 9x$. [2 marks]

Answer:

14. Factorise $8x^2 - 6x$. [2 marks]

Answer:

15. Factorise fully $12x^2 + 18x$. [2 marks]

Answer:

16. Factorise $4x + 4y + 4z$. [2 marks]

Answer:

17. Factorise $7ab - 14a$. [2 marks]

Answer:

18. Jamil says $3(x + 4) = 3x + 4$. Explain his mistake and write the correct expansion. [2 marks]

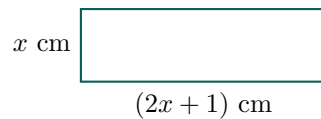
Answer:

19. Expand and simplify $2x(x + 3) - x(x - 1)$. [3 marks]

Answer:

Answer:

20. Here is a rectangle.



(a) Write an expression for the perimeter, expanded and simplified.

[3 marks]

(b) The perimeter is 38 cm. Find x .

[2 marks]

Answer: cm