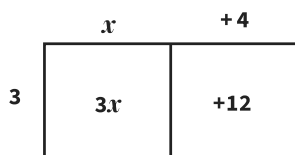


Expanding Single Brackets

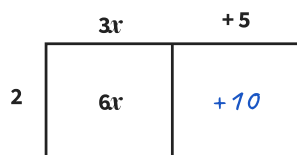
ANSWERS

1
Expand $3(x+4)$



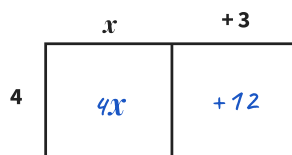
Answer $3x + 12$

2
Expand $2(3x+5)$



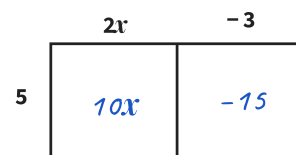
Answer $6x + 10$

3
Expand $4(x+3)$



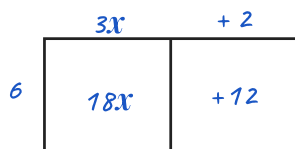
Answer $4x + 12$

4
Expand $5(2x-3)$



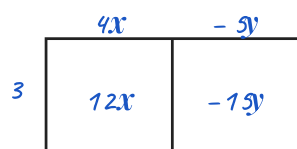
Answer $10x - 15$

5
Expand $6(3x+2)$



Answer $18x + 12$

6
Expand $3(4x-5y)$



Answer $12x - 15y$

7
A rectangle is 4 cm wide and $(x+3)$ cm long. Write an expression for its area and expand it.

$$4(x+3)$$

Answer $4x + 12$

8
Find the missing number.
 $?(2x+5) = 6x+15$

$$3 \times 2x = 6x \text{ and } 3 \times 5 = 15$$

Answer 3

Expanding Single Brackets further practice

ANSWERS

9
Expand $5(2p+3q)$

Answer $10p + 15q$

10
Expand $x(x+4)$

$$x \times x = x^2 \text{ and } x \times 4 = 4x$$

Answer $x^2 + 4x$

11
Expand $-2(x+6)$

$$-2 \times x = -2x \text{ and } -2 \times 6 = -12$$

Answer $-2x - 12$

12
A coach trip costs $\pounds x$ for each person, plus $\pounds 3$ each for lunch. 8 people go on the trip. Write an expression for the total cost in pounds, using a bracket. Expand the bracket.

$$8(x+3)$$

Answer $8x + 24$

13
Find the missing terms.
 $3(2x - \square) = \square - 12$

$$3 \times 2x = 6x \text{ and } 3 \times 4 = 12$$

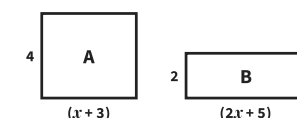
Answer $3(2x - 4) = 6x - 12$

14
A pencil costs $(x+3)$ pence and a rubber costs $(x-1)$ pence. Sam buys 4 pencils and 2 rubbers. Write an expression for the total cost in pence. Expand and simplify.

$$4(x+3) + 2(x-1)$$

Answer $6x + 10$

15
Lengths are in centimetres. Which rectangle has the bigger area? Show how you know.



$$A: 4x + 12 \quad B: 4x + 10$$

Answer A, by 2 cm^2

16
Amir expands $3(x-5)$ and gets $3x-5$. What has Amir done wrong? Find the right answer.

$$\text{he did not multiply the 5 by 3}$$

Answer $3x - 15$