Expanding a single bracket

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

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

Multiply both terms by 4.

Answer: $4x + 8$

2. Expand $3(2a - 5)$. [2 marks]

$3(2a) = 6a$ and $3(-5) = -15$.

Answer: $6a - 15$

3. Expand $-5(y + 3)$. [2 marks]

Distribute -5 to both terms.

Answer: $-5y - 15$

4. Expand $-2(4p - 7)$. [2 marks]

$(-2)(4p) = -8p$ and $(-2)(-7) = 14$.

Answer: $-8p + 14$

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

Expand to $2x + 6 + 5x$.

Collect the x terms.

Answer: $7x + 6$

6. A strip is 3 cm wide and $(n + 4)$ cm long. Write its area in expanded form. [3 marks]

Area is $3(n + 4)$.

Distribute to get $3n + 12$.

Answer: $(3n + 12)$ square centimetres