One-step multiplication/division equations

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Solve $3x = 27$. [2 marks]

Divide both sides by 3.

$x = 27 \div 3 = 9$.

Check: $3 \times 9 = 27$.

Answer: $x = 9$

2. Solve $8n = 48$. [2 marks]

Divide both sides by 8.

$n = 48 \div 8 = 6$.

Check: $8 \times 6 = 48$.

Answer: $n = 6$

3. Solve $12a = 84$. [2 marks]

Divide both sides by 12.

$a = 84 \div 12 = 7$.

Check: $12 \times 7 = 84$.

Answer: $a = 7$

4. Solve $\frac{p}{5} = 11$. [2 marks]

Multiply both sides by 5.

$p = 11 \times 5 = 55$.

Check: $55 \div 5 = 11$.

Answer: $p = 55$

5. Solve $y \div 9 = 4$. [2 marks]

Multiply both sides by 9.

$y = 4 \times 9 = 36$.

Check: $36 \div 9 = 4$.

Answer: $y = 36$

6. Six identical packs contain 42 cards in total. Let c be the number of cards in each pack. Write and solve an equation. [3 marks]

Six equal pack amounts give $6c = 42$.

Divide both sides by 6: $c = 7$.

Check: $6 \times 7 = 42$.

Answer: $6c = 42$; $c = 7$ cards per pack.