Mathematical notation and implied multiplication

6 questions | 8 marks

Equivalent correct methods earn the corresponding marks.

1. Write $8 \times y$ in shorthand. [1 mark]

Put the coefficient before the letter.

Answer: $8y$

2. Write $a \times b$ in shorthand. [1 mark]

The variable factors may be written beside one another.

Answer: ab

3. Write $5 \times k \times k$ in shorthand. [2 marks]

The repeated factor gives k^2.

Keep 5 as the coefficient.

Answer: $5k^2$

4. Show the multiplication sign in $3(p + 2)$. [1 mark]

The 3 multiplies the whole bracket.

Answer: $3 \times (p + 2)$

5. Evaluate $4b$ when $b = 6$. [1 mark]

$4b = 4 \times 6 = 24$.

Answer: 24

6. For $x = 3$, find x^2 and $2x$. Are they equal? [2 marks]

$x^2 = 3 \times 3 = 9$.

$2x = 2 \times 3 = 6$.

Answer: 9 and 6; they are not equal.