Brackets/order of operations

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

1. Calculate $7 + 4 \times 3$. [1 mark]

$4 \times 3 = 12$; $7 + 12 = 19$.

Answer: 19.

2. Calculate $(7 + 4) \times 3$. [1 mark]

The bracket gives 11; $11 \times 3 = 33$.

Answer: 33.

3. Calculate $18 \div 3 \times 2$. [2 marks]

$18 \div 3 = 6$, then $6 \times 2 = 12$.

Answer: 12.

4. Calculate $20 - 6 + 2$. [1 mark]

Work left to right: $20 - 6 = 14$, then $14 + 2 = 16$.

Answer: 16.

5. Calculate $4^2 + 3 \times 2$. [2 marks]

4^2 is 16; $3 \times 2 = 6$; $16 + 6 = 22$.

Answer: 22.

6. Five notebooks cost 3 dollars each. A pen costs 2 dollars. Write and evaluate a calculation for the total. [2 marks]

Find the notebook cost first, then add the pen.

Answer: $5 \times 3 + 2 = 17$ dollars.