One-/two-digit multipliers

6 questions | 11 marks

Equivalent correct methods earn the corresponding marks.

1. Calculate 62×4. [1 mark]

$60 \times 4 = 240$ and $2 \times 4 = 8$; add them.

Answer: 248.

2. Calculate 35×7. [1 mark]

$30 \times 7 = 210$ and $5 \times 7 = 35$.

Answer: 245.

3. Calculate 42×16 using tens and ones. [2 marks]

$42 \times 10 = 420$; $42 \times 6 = 252$.

$420 + 252 = 672$.

Answer: 672.

4. A theatre has 24 rows with 15 seats in each row. How many seats are there? [2 marks]

$24 \times 10 = 240$ and $24 \times 5 = 120$.

$240 + 120 = 360$.

Answer: 360 seats.

5. Use doubling and halving to calculate 25×24. [2 marks]

Double twenty-five to fifty and halve twenty-four to twelve.

$50 \times 12 = 600$.

Answer: 600.

6. Kai calculates 31×12 as $31 + 62 = 93$. Explain the error and correct the answer. [3 marks]

Twelve means ten plus two.

$31 \times 10 + 31 \times 2 = 310 + 62 = 372$.

Answer: The tens contribution should be 310, so the answer is 372.