Practical models

6 questions | 14 marks

Equivalent correct methods earn the corresponding marks.

1. Five notebooks cost 3 dollars each. Find the cost. [2 marks]

$5 \times 3 = 15$.

Answer: 15 dollars

2. Three tickets cost 8 dollars each. Add one 4-dollar booking fee. [2 marks]

Tickets: $3 \times 8 = 24$.

$24 + 4 = 28$.

Answer: 28 dollars

3. An order costs 37 dollars. Pay with 50 dollars. Find the change. [2 marks]

$50 - 37 = 13$.

Check: $37 + 13 = 50$.

Answer: 13 dollars

4. Use the prices to find the total for 4 brushes and 2 trays. [3 marks]

Art-shop prices

Item	One costs (dollars)
Brush	4
Paint tray	5

Brushes: $4 \times 4 = 16$ dollars.

Trays: $2 \times 5 = 10$ dollars.

$16 + 10 = 26$.

Answer: 26 dollars

5. A trip model is $8 \times 5 + 6$ dollars. The 8 means eight students. Explain what the 5 and 6 could mean. [2 marks]

8×5 represents eight equal fares.

The 6 is added once, so it can represent a group fee.

Accept another consistent explanation.

Answer: Each student pays 5 dollars and the group pays one 6-dollar extra charge.

6. Mina says 9 tickets at 4 dollars each cost 396 dollars. Give a quick check that shows this is unreasonable. [3 marks]

$10 \times 4 = 40$.

$9 \times 4 = 36$.

396 is far larger than the estimate.

Answer: Ten tickets cost 40 dollars, so nine must cost less than 40 dollars. The exact cost is 36 dollars.