Ratio scaling and division review

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Simplify $18:30$. [1 mark]

Divide both terms by their common factor 6.

Answer: $3:5$.

2. Write the ratio 2 m to 50 cm in simplest form. [2 marks]

Convert 2 m to 200 cm.

$200:50=4:1$.

Answer: $4:1$.

3. Complete the equivalent ratio $4:7=20:\square$. [2 marks]

The first term was multiplied by 5.

Multiply the second term by 5: $7\times5=35$.

Answer: 35.

4. Share AUD 96 in the ratio $5:3$. [3 marks]

Total parts: $5+3=8$.

One part is $96\div 8=12$.

Shares are $5\times 12=60$ and $3\times 12=36$.

Answer: AUD 60 and AUD 36.

5. A:B $=2:5$. B is 35. Find A and the total. [3 marks]

One part is $35\div 5=7$.

A is $2\times 7=14$.

The total is $14+35=49$.

Answer: A is 14; the total is 49.

6. Juice:water $=3:4$. A drink contains 750 mL of juice. How much water is needed? [2 marks]

One part is $750\div 3=250$ mL.

Four parts are $4\times 250=1,000$ mL.

Answer: 1,000 mL of water.