Equivalent fractions and mixed numbers

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Simplify $\frac{15}{20}$. [2 marks]

Divide numerator and denominator by 5.

Answer: $\frac{3}{4}$

2. Complete $\frac{4}{7} = \frac{\square}{28}$. [2 marks]

28 is 7×4, so the numerator must also be multiplied by 4.

Answer: 16

3. Write $2\frac{3}{5}$ as an improper fraction. [2 marks]

$2 \times 5 + 3 = 13$; keep denominator 5.

Answer: $\frac{13}{5}$

4. Write $\frac{23}{6}$ as a mixed number. [2 marks]

$23 \div 6$ is 3 remainder 5.

Answer: $3\frac{5}{6}$

5. Explain why $\frac{6}{8}$ is not in simplest form. [2 marks]

6 and 8 share the factor 2.

Answer: $\frac{6}{8} = \frac{3}{4}$

6. One board is $1\frac{1}{2}$ m long. Another is $\frac{6}{4}$ m. Are their lengths equal? [3 marks]

$1\frac{1}{2} = \frac{3}{2} = \frac{6}{4}$.

Both amounts use metres.

Answer: Yes.