Equivalent fractions

6 questions | 8 marks

Equivalent correct methods earn the corresponding marks.

1. Complete $\frac{2}{3} = \frac{?}{12}$. [1 mark]

Multiply numerator and denominator by 4.

Answer: 8.

2. Write $\frac{5}{8}$ with denominator 24. [1 mark]

Multiply both counts by 3.

Answer: $\frac{15}{24}$.

3. Simplify $\frac{12}{20}$. [1 mark]

Divide both counts by 4.

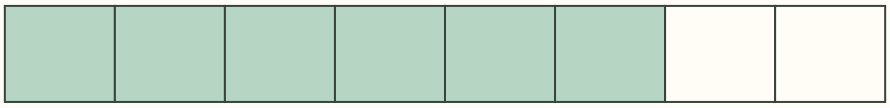
Answer: $\frac{3}{5}$.

4. Simplify $\frac{21}{28}$. [1 mark]

Divide both counts by 7.

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

5. Write the shaded fraction, then simplify it. [2 marks]



6 of 8 equal parts

Six of eight parts are shaded; divide both counts by 2.

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

6. Noah says $\frac{2}{5} = \frac{4}{7}$ because he added 2 to both numbers. Explain the error and give an equivalent fraction. [2 marks]

Multiply both numerator and denominator by 2 instead.

Answer: The amounts differ; one correct equivalent is $\frac{4}{10}$.