Fractions/decimals/percentages

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. Write $\frac{1}{2}$ as a decimal and a percentage. [2 marks]

$\frac{1}{2} = \frac{5}{10} = \frac{50}{100}$.

Answer: 0.5 and 50%.

2. Write 0.75 as a fraction and a percentage. [2 marks]

$0.75 = \frac{75}{100} = \frac{3}{4}$.

Answer: $\frac{3}{4}$ and 75%.

3. Write 20% as a fraction in simplest form. [2 marks]

$\frac{20}{100} = \frac{1}{5}$.

Answer: $\frac{1}{5}$.

4. Which is larger: 30% or $\frac{1}{4}$? [2 marks]

$\frac{1}{4} = 25\%$.

30% is greater than 25%.

Answer: 30%.

5. Put $\frac{1}{2}$, 0.2 and 75% in order from least likely to most likely. [2 marks]

Convert to 20%, 50% and 75%.

Answer: 0.2, $\frac{1}{2}$, 75%.

6. A student writes a probability as 140%. Explain why this cannot be correct. [2 marks]

100% already includes all possible outcomes.

Check that favourable outcomes were not counted more than once or compared with the wrong total.

Answer: A probability cannot exceed 100%.