Fractions/decimals/percentages

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. Write 1/2 as a decimal and a percentage. [2 marks]

1/2 = 5/10 = 50/100.

Answer: 0.5 and 50%.

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

0.75 = 75/100 = 3/4.

Answer: 3/4 and 75%.

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

20/100 = 1/5.

Answer: 1/5.

4. Which is larger: 30% or 1/4? [2 marks]

1/4 = 25%.

30% is greater than 25%.

Answer: 30%.

5. Put 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, 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%.