Expressing one amount as a percentage of another

6 questions | 14 marks

Equivalent correct methods earn the corresponding marks.

1. Express 8 as a percentage of 20. [2 marks]

$\frac{8}{20} \times 100\% = 40\%$.

Answer: 40%

2. Express 27 as a percentage of 45. [2 marks]

$\frac{27}{45} = \frac{3}{5} = 60\%$.

Answer: 60%

3. A team wins 14 of its 40 games. What percentage does it win? [2 marks]

$\frac{14}{40} = \frac{35}{100}$.

Answer: 35%

4. What percentage of 1.2 km is 18 m? [3 marks]

$1.2 \text{ km} = 1200 \text{ m}$.

$\frac{18}{1200} \times 100\% = 1.5\%$.

Answer: 1.5%

5. Twelve of 15 classmates have a ticket. What percentage have a ticket? [2 marks]

$\frac{12}{15} = \frac{4}{5} = 80\%$.

Answer: 80%

6. Group A has 7 correct answers out of 10. Group B has 9 out of 15. Which has the higher percentage correct? [3 marks]

$\frac{7}{10} = 70\%$ and $\frac{9}{15} = 60\%$.

Comparing only 7 and 9 ignores the different totals.

Answer: Group A: 70%, compared with 60% for Group B.