Year 6 Percentages and financial maths topic test

12 questions | 26 marks | 30 minutes

Start with familiar skills, then explain decisions and solve practical problems. Show your working.

Equivalent correct methods earn the corresponding marks.

1. Write 0.25 as a fraction and a percentage. [2 marks]

$0.25 = \frac{25}{100} = \frac{1}{4}$.

Answer: $\frac{1}{4}$ and 25%.

2. Write $\frac{3}{5}$ as a decimal and a percentage. [2 marks]

$\frac{3}{5} = \frac{6}{10} = \frac{60}{100}$.

Answer: 0.6 and 60%.

3. Find 10% of 70 metres. [1 mark]

$70 \div 10 = 7$.

Answer: 7 m.

4. Find 75% of 48 counters. [2 marks]

A quarter is 12 counters; three quarters is 36.

Answer: 36 counters.

5. A 90-dollar item has 20% off. Find the amount saved. [1 mark]

10% is 9 dollars; twice that is 18.

Answer: 18 dollars.

6. A shirt normally costs 64 dollars and has 25% off. Find the sale price. [2 marks]

A quarter of 64 is 16; $64 - 16 = 48$.

Answer: 48 dollars.

7. A club has 80 dollars. It buys four packs at 7.50 dollars each and a sign costing 18 dollars. Find the money left. [3 marks]

$4 \times 7.50 = 30$; total 48; $80 - 48 = 32$.

Answer: 32 dollars.

8. Six lunches are planned at 4 dollars each. The price changes to 4.50 dollars. How much extra is needed? [2 marks]

Each lunch rises by 0.50 dollars; $6 \times 0.50 = 3$.

Answer: 3 dollars.

9. A stall collects 120 dollars. Materials cost 48.60 dollars and fees cost 11.40 dollars. Find the surplus. [2 marks]

Costs are $48.60 + 11.40 = 60$; $120 - 60 = 60$.

Answer: 60 dollars.

10. Shop A offers 10% off a 50-dollar item. Shop B sells the same item for 42 dollars plus 2 dollars delivery. Which total is lower and by how much? [3 marks]

A: $50 - 5 = 45$; B: $42 + 2 = 44$.

Answer: Shop B is 1 dollar cheaper.

11. A class has 75 dollars. Plan A costs 68 dollars but may need an extra 10-dollar fee. Plan B costs 72 dollars with no extra fees. Compare the plans using the supplied costs. [3 marks]

$75 - 68 = 7$ dollars before any extra fee.

$68 + 10 = 78$, while $75 - 72 = 3$. A recommendation for B is justified if avoiding the stated risk is the priority.

Answer: Plan A fits only without the extra fee; with it the total is 78 dollars, 3 dollars over budget. Plan B fits with 3 dollars left.

12. A display has a 30-dollar budget. It needs six identical folders. Each pack of three costs 12 dollars. Find the cost and explain whether a possible 5-dollar delivery fee fits. [3 marks]

Two packs cost $2 \times 12 = 24$; $24 + 5 = 29$; $30 - 29 = 1$.

Answer: Folders cost 24 dollars; with delivery the total is 29 dollars, leaving 1 dollar.