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]

$0.25=25/100=1/4$.

Answer: 1/4 and 25%.

2. Write 3/5 as a decimal and a percentage. [2 marks]

$3/5=6/10=60/100$.

Answer: 0.6 and 60%.

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

$70\div10=7$.

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]

4×7.50=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; 6×0.50=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 2×12=24; 24+5=29; 30−29=1.

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