Percentage change consolidation

6 questions | 14 marks

Equivalent correct methods earn the corresponding marks.

1. Find 10% of 240 dollars. [2 marks]

$0.10 \times 240 = 24$.

Answer: AUD 24.00

2. Increase 72 dollars by 25%. [2 marks]

$72 \times 1.25 = 90$.

Answer: AUD 90.00

3. A 180-dollar item is discounted by 20%. Find its sale price. [2 marks]

$180 \times 0.80 = 144$.

Answer: AUD 144.00

4. A price falls from 150 to 120 dollars. Find the percentage decrease. [2 marks]

Decrease $= 30$ dollars.

$\frac{30}{150} = 0.2 = 20\%$.

Answer: 20%

5. An item costs 81 dollars after a 10% discount. Find its original price. [3 marks]

$0.9P = 81$, so $P = \frac{81}{0.9} = 90$.

Answer: AUD 90.00

6. A 100-dollar price increases by 10%, then decreases by 10%. Find the final price and explain why it is not 100 dollars. [3 marks]

$100 \times 1.10 \times 0.90 = 99$.

The decrease is calculated from the new base of 110 dollars.

Answer: AUD 99.00