Percentage Profit Calculation

Core Worksheet

Worked Examples & Guided Practice

I Do (Teacher Model) A shopkeeper buys an item for £40 and sells it for £50. Calculate the percentage profit.

We Do (Guided Practice) A bicycle is purchased for £160 and resold for £208. Calculate the percentage profit.

You Do (Independent Practice) A car was bought for £8000 and sold for £9200. Calculate the percentage profit.

Challenge (Extension) A trader buys 50 identical mugs for £200 total. He sells 40 of them for £6 each and the remaining 10 for £3 each. Calculate his overall percentage profit.

Practice Perfect Questions

Q1. An item bought for £20 is sold for £25. Calculate the percentage profit.

Q2. A guitar is bought for £150 and sold for £195. Calculate the percentage profit.

Q3. A house purchased for £200,000 is sold for £230,000. Calculate the percentage profit.

Q4. A laptop bought for £400 is sold for £468. Calculate the percentage profit.

Q5. An antique bought for £80 is sold for £116. Calculate the percentage profit.

Q6. A retailer buys goods for £500. After paying £50 transport costs, the goods are sold for £660. Calculate the overall percentage profit based on total cost.

Answers & Worked Solutions

Model Solutions

- **I Do:** Profit $= 50 - 40 = 10 \implies \dfrac{10}{40} \times 100 = 25\%$
- **We Do:** Profit $= 208 - 160 = 48 \implies \dfrac{48}{160} \times 100 = 30\%$
- **You Do:** Profit $= 9200 - 8000 = 1200 \implies \dfrac{1200}{8000} \times 100 = 15\%$
- **Challenge:** Revenue $= (40 \times 6) + (10 \times 3) = 270$. Profit $= 270 - 200 = 70 \implies \dfrac{70}{200} \times 100 = 35\%$

Practice Perfect Questions Solutions

Q1. $\dfrac{5}{20} \times 100 = 25\%$

Q2. $\dfrac{45}{150} \times 100 = 30\%$

Q3. $\dfrac{30000}{200000} \times 100 = 15\%$

Q4. $\dfrac{68}{400} \times 100 = 17\%$

Q5. $\dfrac{36}{80} \times 100 = 45\%$

Q6. Total Cost $= 550$. Profit $= 110 \implies \dfrac{110}{550} \times 100 = 20\%$