



Decimals & Percentages

Gold

These Gold questions require multi-step decimal and percentage reasoning.

Name: _____ Date: _____

Section A: Decimal Reasoning

1. Work out $12.75 + 8.6 - 5.35$.

2. A number rounds to 6.5 when rounded to one decimal place. Give two possible values it could be.

3. Three items cost £4.65, £2.80, and £9.99. What is the total, and how much change from £20?

4. Put these in order, largest first: $\frac{3}{4}$, 0.7, 70%, 0.075

5. Explain why 0.5 and 50% and $\frac{1}{2}$ are all the same value.

Section B: Percentage Problems

1. A shop increases a £45 price by 20%, then reduces the new price by 10%. What is the final price?

2. If 15% of a number is 30, what is the whole number?

3. A school has 250 pupils. If attendance is 96%, how many pupils are absent?

4. A saver has £800 and earns 5% interest in a year. How much money do they have after one year?

5. Two shops sell the same £80 item. Shop A takes 25% off. Shop B takes off £15 then adds 10% VAT. Which is cheaper, and by how much?

