

Reasoning and Problem Solving

Percentage of an Amount 1

Developing

- 1a. £16. No, he wanted to raise £20.
2a. Shae has made the larger number as 50% of 80kg = 40kg. Ollie has made 10kg.
3a. Esme found 50% of 500 instead of 10% because she divided by 2. She should have calculated $500 \div 10 = 50$.

Expected

- 4a. £137. Yes, she wanted to raise £125.
5a. Shona has made the largest number as 25% of 1,300cm = 325cm. Toby has made 320cm.
6a. Raoul found 50% of 608 instead of 25% because he divided by 2. He should have calculated $608 \div 4 = 152$.

Greater Depth

- 7a. £248.75. Yes, wanted to raise £242.50
8a. Eva has made the smallest number as 1% of 2.35km = 23.5m. Cal has made 417.5m.
9a. Layla should have calculated $940\text{cm} \div 2 = 470\text{cm}$.

Reasoning and Problem Solving

Percentage of an Amount 1

Developing

- 1b. £610. Yes, she wanted to raise £600.
2b. Finn has made the smaller number as 10% of 110m = 11m. Max has made 25m.
3b. Karl found 10% of 700 instead of 50% because he divided by 10. He should have calculated $700 \div 2 = 350$.

Expected

- 4b. £159. No he wanted to raise £160.
5b. May has made the smallest number as 1% of 500ml = 5ml. Theo has made 50ml.
6b. Josie found 10% of 1,500 instead of 1% because she divided by 10. She should have calculated $1,500 \div 100 = 15$.

Greater Depth

- 7b. £402.40. No, she wanted to raise £402.50
8b. Arlo has made the biggest number as 10% of 65.5cm = 6.55mm. Nia has made 11.25mm.
9b. Aiden has only actually divided 450g by 2 as $450\text{g} \div 4 = 112.5\text{g}$.