Test answers - Length, perimeter, mass and capacity

Year: Year 3 · Duration: 30 minutes · /20

Answer to Question 1 (4 marks)

a. 4 m is 4 × 100 = 400 cm. Add the extra 30 cm: 400 + 30 = **430 cm**. (1 mark)
b. 1 kg is 1000 g. 3000 g is three lots of 1000 g, so it is **3 kg**. (1 mark)
c. 2 l is 2000 ml. Add the 250 ml: 2000 + 250 = **2250 ml**. (1 mark)
d. Each metre is 100 cm. 600 cm contains six hundreds, so it is **6 m**. (1 mark)

Answer to Question 2 (4 marks)

a. Add all four sides of the rectangle, two long and two short: 14 + 6 + 14 + 6. 14 + 14 = 28 and 6 + 6 = 12, so 28 + 12 = **40 cm**. (2 marks: 1 for adding four sides, 1 for 40 cm)
b. A square has 4 equal sides, so share the perimeter by 4: 40 ÷ 4 = **10 cm**. Check: 10 + 10 + 10 + 10 = 40. (2 marks: 1 for dividing by 4, 1 for 10 cm)

Answer to Question 3 (4 marks)

a. 1 kg is 1000 g. Ben uses 350 g: 1000 − 350 = **650 g** left. (1 mark)
b. Change to millilitres: 2 l = 2000 ml and 1 l 200 ml = 1200 ml. 2000 − 1200 = **800 ml** left. (1 mark)
c. A spoon of medicine is a tiny amount of liquid, much less than a litre, so we use **ml**. (1 mark)
d. A pencil is very light, much less than a bag of sugar, so we measure it in **g**. (1 mark)

Answer to Question 4 (4 marks)

a. 1 m is 100 cm. A = 100 + 20 = **120 cm**, B = **95 cm**, C = 100 + 5 = **105 cm**. (2 marks: all three correct; 1 mark for two)
b. Compare 95, 105 and 120: the order from shortest is **B, C, A**. (1 mark)
c. Find the difference: count on from 95 to 120, which is 5 to reach 100 and 20 more. A is **25 cm** longer than B. (1 mark)

Answer to Question 5 (4 marks)

a. Add the four sides of the rectangle: 30 + 20 + 30 + 20. 30 + 30 = 60 and 20 + 20 = 40, so the perimeter is **100 m**. (2 marks: 1 for adding four sides, 1 for 100 m)
b. Each metre costs £2: 100 × £2 = **£200**. (1 mark)
c. He needs 100 m and has 80 m: 100 − 80 = **20 m** more. (1 mark)