Test answers - Metric and imperial units, perimeter, area and volume

Year: Year 5 · Duration: 45 minutes · /20

Answer to Question 1 (4 marks)

(a) 1 km = 1,000 m, so 4.2 × 1,000 = **4,200 m**. (1 mark)

(b) 100 cm = 1 m, so 650 ÷ 100 = **6.5 m**. (1 mark)

(c) 1,000 g = 1 kg, so 3,500 ÷ 1,000 = **3.5 kg**. (1 mark)

(d) 1 litre = 1,000 ml, so 0.8 × 1,000 = **800 ml**. (1 mark)

Answer to Question 2 (4 marks)

(a) 2 × (14 + 9) = 2 × 23 = **46 m**. (2 marks)

(b) 14 × 9 = **126 m²**. (1 mark)

(c) 126 m² needs 13 lots of 10 m² (12.6 rounded up) so 13 × £2 = **£26**. (1 mark)

Answer to Question 3 (4 marks)

(a) 12 × 9 = **108 cm²**. (1 mark)

(b) 5 × 4 = **20 cm²**. (1 mark)

(c) 108 − 20 = **88 cm²**. (1 mark)

(d) Cutting a corner does not change the perimeter: 2 × (12 + 9) = **42 cm**. (1 mark)

Answer to Question 4 (3 marks)

(a) One layer holds 5 × 3 = 15 cubes and there are 2 layers: 15 × 2 = **30 cm³**. (1 mark)

(b) 1 inch is about 2.5 cm, so 4 inches are about 4 × 2.5 = **10 cm**. (1 mark)

(c) 8 km is about 5 miles. 24 km is 3 lots of 8 km, so about 3 × 5 = **15 miles**. (1 mark)

Answer to Question 5 (5 marks)

(a) 9 × 7 = **63 m²**. (1 mark)

(b) 63 × 14 = 630 + 252 = **£882**. (2 marks)

(c) 2 × (9 + 7) = **32 m**. (1 mark)

(d) 32 ÷ 10 = 3.2, so **4 rolls**. (1 mark)