Measurement: Units & Conversion: Hard Practice Paper 7

Q1. On a map, 1 cm represents 2 km. Two towns are 7.5 cm apart on the map. How far apart are they in real life?

A. 15 km *B.* 20 km *C.* 30 km *D.* 37.5 km *E.* 150 km

Q2. On the same map, where 1 cm represents 2 km, two villages are 18 km apart in real life. How far apart are they on the map?

A. 4.5 cm *B.* 9 cm *C.* 16 cm *D.* 20 cm *E.* 36 cm

Q3. A model car is made to a scale of 1 : 50. The model is 9 cm long. How long is the real car?

A. 0.45 m *B.* 4.5 m *C.* 45 m *D.* 59 cm *E.* 450 m

Q4. A plan is drawn so that 1 cm represents 50 cm. A room is 6 m long. How long is it on the plan?

A. 6 cm *B.* 12 cm *C.* 30 cm *D.* 50 cm *E.* 300 cm

Q5. £1 is worth €1.15. How many euros are given for £240?

A. €208.70 *B.* €255.00 *C.* €264.00 *D.* €276.00 *E.* €288.00

Q6. At the same rate of €1.15 to the pound, how many pounds are given for €69?

A. £54 *B.* £57 *C.* £60 *D.* £63 *E.* £79.35

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Q7. A rectangle measures 2.5 m by 60 cm. What is its area in square centimetres?

A. 150 cm²

B. 1,500 cm²

C. 15,000 cm²

D. 150,000 cm²

E. 1,500,000 cm²

Q8. There are 10,000 cm² in 1 m². How many square metres is 45,000 cm²?

A. 0.45 m² *B.* 4.5 m² *C.* 45 m² *D.* 450 m² *E.* 4,500 m²

Q9. A box measures 40 cm by 25 cm by 20 cm. How many litres does it hold? (1,000 cm³ = 1 litre)

A. 2 litres

B. 8.5 litres

C. 20 litres

D. 85 litres

E. 200 litres

Q10. A tank measures 1.2 m by 80 cm by 50 cm. What is its capacity in litres?

A. 48 litres

B. 240 litres

C. 480 litres

D. 4,800 litres

E. 48,000 litres

Q11. A car travels at 72 km/h. How many metres does it travel in one minute?

A. 72 m *B.* 120 m *C.* 720 m *D.* 1,200 m *E.* 7,200 m

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Q12. A sprinter runs 100 m in 12.5 seconds. What is the average speed in metres per second?

A. 6 m/s *B.* 7.5 m/s *C.* 8 m/s *D.* 8.5 m/s *E.* 12.5 m/s

Q13. One mile is about 1.6 km. A speed limit is 50 miles per hour. Roughly what is this in kilometres per hour?

A. 31 km/h *B.* 50 km/h *C.* 65 km/h *D.* 70 km/h *E.* 80 km/h

Q14. A car travels 12 km on each litre of fuel. How much fuel is needed for a journey of 270 km?

A. 18 litres

B. 20.5 litres

C. 22.5 litres

D. 24 litres

E. 32.4 litres

Q15. A plank 2.5 m long has a mass of 6 kg. What is the mass of a 40 cm piece cut from the same plank?

A. 0.24 kg *B.* 0.96 kg *C.* 1.5 kg *D.* 2.4 kg *E.* 9.6 kg

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