Measurement: Units & Conversion: Hard Practice Paper 8

Q1. A recipe for 4 people uses 250 ml of milk and 300 g of flour. How much of each is needed for 10 people?

A. 500 ml and 600 g

B. 600 ml and 700 g

C. 625 ml and 750 g

D. 650 ml and 800 g

E. 750 ml and 625 g

Q2. A machine makes 45 items every minute. How many items does it make in 1 hour 20 minutes?

A. 2,700 *B.* 3,150 *C.* 3,600 *D.* 4,050 *E.* 5,400

Q3. Apples cost £2.40 for each kilogram. Ravi buys 1.75 kg and pays with a £10 note. How much change does he get?

A. £4.20 *B.* £5.60 *C.* £5.80 *D.* £6.20 *E.* £7.60

Q4. A late-night shop is open from 22:15 until 06:45 the next morning. For how long is it open?

A. 7 hours 30 minutes

B. 8 hours

C. 8 hours 30 minutes

D. 9 hours 30 minutes

E. 15 hours 30 minutes

Q5. A box has a mass of 350 g when empty. It is filled with 18 jars, each weighing 245 g. What is the total mass in kilograms?

A. 4.41 kg *B.* 4.76 kg *C.* 5.11 kg *D.* 5.36 kg *E.* 10.71 kg

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Q6. A pool is filled at a rate of 450 litres every hour. How long does it take to put in 2,700 litres?

A. 4 hours *B.* 5 hours *C.* 6 hours *D.* 7 hours *E.* 9 hours

Q7. A car park charges £1.20 for the first hour and 80p for each extra half hour. What does it cost to park for 3 hours?

A. £3.60 *B.* £4.00 *C.* £4.40 *D.* £4.80 *E.* £5.20

Q8. On a map, 1 cm represents 250 m. A footpath is drawn 3.4 cm long. How long is the real path, in kilometres?

A. 0.6 km *B.* 0.75 km *C.* 0.85 km *D.* 1.25 km *E.* 8.5 km

Q9. A container measures 50 cm by 30 cm by 40 cm. It is filled to three quarters of its depth with water. How many litres of water is that?

A. 15 litres *B.* 30 litres *C.* 45 litres *D.* 50 litres *E.* 60 litres

Q10. Which is the better value: 750 ml of juice for £1.80, or 2 litres for £4.60?

A. 750 ml, by 10p a litre

B. 2 litres, by 10p a litre

C. 750 ml, by 20p a litre

D. 2 litres, by 20p a litre

E. They are the same value

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Q11. A cyclist rides 24 km to a village at 12 km/h and returns along the same road at 8 km/h. How long does the whole trip take?

A. 3 hours

B. 4 hours

C. 4 hours 30 minutes

D. 5 hours

E. 6 hours

Q12. One pound in weight is about 450 g. A recipe needs 2 pounds of flour. Roughly how many kilograms is that?

A. 0.45 kg *B.* 0.9 kg *C.* 1.35 kg *D.* 2.25 kg *E.* 4.5 kg

Q13. A dripping tap wastes 250 ml of water every hour. How many litres are wasted in one week?

A. 6 litres

B. 24 litres

C. 42 litres

D. 168 litres

E. 420 litres

Q14. The table shows the distances in kilometres between three towns. How far is a return trip from Bath to Exeter and back again?

	Bath	**Bristol**	**Exeter**
Bath	—	20	75
Bristol	20	—	65
Exeter	75	65	—

A. 75 km *B.* 95 km *C.* 130 km *D.* 140 km *E.* 150 km

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Q15. A 3.2 kg bag of rice is shared into 250 g portions. How many full portions are there, and what mass of rice is left over?

A. 12 portions, 200 g left

B. 12 portions, 500 g left

C. 13 portions, 50 g left

D. 13 portions, 200 g left

E. 14 portions, none left

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