Measurement: Units & Conversion: Hard Practice Paper 8 Answers

Q#	Answer	Explanation
1	C	Ten people is two and a half times four people. The milk becomes 250 × 2.5 = 625 millilitres and the flour becomes 300 × 2.5 = 750 grams.
2	C	One hour 20 minutes is 80 minutes. The machine makes 45 × 80 = 3600 items in that time.
3	C	The apples cost 2.40 × 1.75 = 4.2, which is £4.20. The change from £10 is 10 − 4.20 = 5.80 pounds.
4	C	From 22:15 to midnight is 1 hour 45 minutes. From midnight to 06:45 is a further 6 hours 45 minutes. Adding them gives 7 hours and 90 minutes, which is 8 hours 30 minutes.
5	B	The jars weigh 245 × 18 = 4410 grams altogether. Adding the empty box gives 4410 + 350 = 4760 grams, which is 4.76 kg.
6	C	Divide the amount needed by the rate: 2700 ÷ 450 = 6 hours.
7	C	The first hour costs £1.20, leaving 2 hours, which is 4 extra half hours. Those cost 80 × 4 = 320 pence, or £3.20. The total is 1.20 + 3.20 = 4.40 pounds.
8	C	Each centimetre stands for 250 m, so the path is 250 × 3.4 = 850 metres. Dividing by 1,000 changes that into 0.85 kilometres.
9	C	The container holds 50 × 30 × 40 = 60000 cubic centimetres, which is 60 litres. Three quarters of that is 60 ÷ 4 = 15 litres for each quarter, so 15 × 3 = 45 litres.
10	B	Find the price of one litre from each. The small bottle gives 180 ÷ 0.75 = 240 pence a litre, and the large one gives 460 ÷ 2 = 230 pence a litre. The 2 litre bottle is cheaper, by 240 − 230 = 10 pence a litre.
11	D	Work out each leg separately. Going takes 24 ÷ 12 = 2 hours and returning takes 24 ÷ 8 = 3 hours. Altogether the trip takes 2 + 3 = 5 hours.

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12	B	Two pounds weigh about 450 × 2 = 900 grams. Dividing by 1,000 changes that into 0.9 kilograms.
13	C	A week holds 24 × 7 = 168 hours. The water wasted is 250 × 168 = 42000 millilitres, and dividing by 1,000 gives 42 litres.
14	E	Reading across the Bath row to the Exeter column gives 75 km one way. A return trip covers that distance twice, so it is 75 × 2 = 150 kilometres.
15	A	The bag holds 3,200 grams. Twelve portions use 250 × 12 = 3000 grams, and a thirteenth would need 3,250 g, which is more than there is. What is left is 3200 − 3000 = 200 grams.

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