Measurement: Units & Conversion: Medium Practice Paper 7 Answers

Q#	Answer	Explanation
1	B	Compare the cost of 100 g from each pack. Pack A gives 120 ÷ 2.5 = 48 pence, pack B gives 220 ÷ 5 = 44 pence and pack C gives 460 ÷ 10 = 46 pence. Pack B is the cheapest for the same mass.
2	B	Put every mass into grams: 250 g, 500 g and 1 kg, which is 1,000 g. Adding them gives 250 + 500 + 1000 = 1750 grams, and dividing by 1,000 gives 1.75 kg.
3	A	Share the water evenly between the minutes: 45 ÷ 6 = 7.5 litres every minute.
4	C	The journey is three and a half lots of 100 km. Three lots use 8 × 3 = 24 litres, and the half uses another 4, so the total is 24 + 4 = 28 litres.
5	B	Three litres is 3,000 ml. Eight cups take 350 × 8 = 2800 ml, and a ninth would need 3,150 ml, which is more than there is. So only 8 full cups can be poured.
6	D	Find the amount for one person first: 400 ÷ 5 = 80 grams each. For 8 people that is 80 × 8 = 640 grams.
7	C	Share the total mass between the pens: 300 ÷ 24 = 12.5 grams each.
8	C	Change the grams into kilograms first, so 950 g is 0.95 kg. Then add: 2.05 + 0.95 = 3 kilograms.
9	C	Change the time into hours, since 15 minutes is a quarter of an hour, making 2.25 hours. Then divide the distance by the time: 189 ÷ 2.25 = 84 km/h.
10	C	Divide the water used by the amount used each minute: 90 ÷ 12 = 7.5 minutes, which is 7 minutes and 30 seconds.
11	B	Work out the price of one litre from each. The first is 450 ÷ 3 = 150 pence a litre and the second is 700 ÷ 5 = 140 pence a litre. The 5 litre tin is cheaper, by 150 − 140 = 10 pence a litre.

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12	C	Change the length into centimetres first, since 5 m is 500 cm. Then share it out: 500 ÷ 8 = 62.5 centimetres for each piece.
13	B	One apple weighs 900 ÷ 6 = 150 grams. Ten apples therefore weigh 150 × 10 = 1500 grams, which is 1.5 kg.
14	E	Multiply the size of one pint by the number of pints: 570 × 4 = 2280 millilitres, which is a little over 2 litres.
15	C	Two hours is 120 minutes, so the water wasted is 8 × 120 = 960 millilitres. Dividing by 1,000 changes that to 0.96 litres.

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