Measurement: Units & Conversion: Medium Practice Paper 6 Answers

Q#	Answer	Explanation
1	B	Each row shows one length three ways. Length C is 120 cm, and there are 100 cm in a metre, so divide: 120 ÷ 100 = 1.2 metres.
2	C	Read both lengths from the centimetre column, where C is 120 cm and B is 25 cm. The difference is 120 − 25 = 95 centimetres.
3	A	Put them all into grams. There are 1,000 g in a kilogram and 1,000 mg in a gram, so they become 450 g, 405 g, 4.5 g, 50 g and 45 g. The heaviest is 450 g, which is 0.45 kg.
4	C	The prefix milli always means a thousandth, just as it does in millimetres and millilitres. So one gram is made up of 1,000 milligrams.
5	C	Work in two steps. There are 1,000 m in a kilometre, so 0.07 km is 70 metres. Then each metre is 100 cm, so 70 × 100 = 7,000 centimetres.
6	C	Each cubic metre holds 1,000 litres, so two cubic metres hold 1000 × 2 = 2,000 litres.
7	C	A cubic centimetre and a millilitre are exactly the same amount of space, so the number does not change at all. The jug holds 750 ml, which is three quarters of a litre.
8	B	A door is a little taller than an adult, so about 2 metres is sensible. 20 cm is about the length of a pencil, and 20 m would be as tall as a house several storeys high.
9	D	Put both lengths into the same unit first. 3 metres is 300 cm, so the calculation is 300 − 145 = 155 centimetres.
10	C	Ten centimetres is 0.1 m, so the plank must be rounded to one decimal place. The length is 2.47 m, and the 7 in the hundredths place means rounding up, giving 2.5 m.

myFreeSchool

11	E	Change them all into millilitres, remembering that a litre is 1,000 ml. They become 400 ml, 450 ml, 50 ml, 4,000 ml and 40 ml, so the smallest is 40 ml.
12	B	There are 1,000 kilograms in a tonne, so divide by 1,000: 3750 ÷ 1000 = 3.75 tonnes.
13	B	Change the length into centimetres first, since 4.6 m is 460 cm. Then divide by the length of each piece: 460 ÷ 20 = 23 pieces.
14	B	First find the total in grams: 425 × 12 = 5100 grams. Then divide by 1,000 to change to kilograms, giving 5100 ÷ 1000 = 5.1 kg.
15	C	Work in pence, so £10 is 1,000p and each drink is 135p. Seven drinks cost 135 × 7 = 945 pence, and an eighth would cost more than £10. The change is 1000 − 945 = 55 pence.

myfreeschool