



KS2.M-Y4M1 Measurement: Converting Units

Calculators not allowed · about 45 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

1 Write 150 centimetres in metres.

(1)

2 How many centimetres are there in 3.2 metres?

(1)

3 Convert 45 millimetres to centimetres.

(1)

4 Write 750 grams as kilograms.

(1)

5 Convert 2.3 kilograms into grams.

(1)

6 How many litres are there in 1250 millilitres?

(1)

7 Write 0.6 litres in millilitres.

(1)

8 A 2.4 metre ribbon is cut into 6 equal pieces. How long is each piece in centimetres?

(2)

9 Sophie buys three bags of sugar. Each bag weighs 1.25 kg. Work out the total mass in grams.

(2)

10 Which is larger, 750 ml or $\frac{3}{4}$ L? Explain your answer.

(1)

11 Seven apples each weigh 85 g. What is the total mass in kilograms, to three decimal places?

(2)

12 A watering can holds 2.5 litres. Each small plant needs 300 ml of water. How many small plants can be watered full using one watering can?

(2)

13 A metal rod is 1.8 metres long. Write its length in millimetres.

(1)

14 A recipe needs 750 ml of milk. You have a jug containing 0.8 litres. Do you have enough milk? Explain your answer and say how much is left or needed.

(2)

15 One sausage roll weighs 120 g. A pack contains 6 sausage rolls. A shop sells 6 such packs. What is the total mass of all the sausage rolls in kilograms?

(3)

16 A classroom set of art paper has 12 boxes. Each box weighs 0.45 kg. What is the total mass of the art paper in grams?

(2)

17 A jug contains 2500 ml. Is this equal to 2.5 L? Explain your answer. If another jug holds 3 L, how much more water does the 3 L jug hold than the 2500 ml jug? Give your answer in millilitres.

(3)

- 18** A football pitch is 100 m long. A running track is 2500 cm long. How many metres long is the running track? What fraction of the pitch is the running track's length? Give the fraction in its simplest form.

(2)

Mark scheme · KS2.M-Y4M1 Measurement: Converting Units

Question 1

- **B1** 1.5 m correct (150 cm = 1.5 m) cao
- Answer: **1.5 m**

Question 2

- **B1** 320 cm cao
- Answer: **320 cm**

Question 3

- **B1** 4.5 cm cao
- Answer: **4.5 cm**

Question 4

- **B1** 0.75 kg cao
- Answer: **0.75 kg**

Question 5

- **B1** 2300 g cao
- Answer: **2300 g**

Question 6

- **B1** 1.25 L cao
- Answer: **1.25 L**

Question 7

- **B1** 600 ml cao
- Answer: **600 ml**

Question 8

- **M1** Divide 2.4 m by 6 or convert then divide ($2.4/6 = 0.4$ m or $240\text{ cm}/6 = 40$ cm) method
- **A1** 40 cm cao
- Answer: **40 cm**

Question 9

- **M1** Multiply 1.25 kg by 3 to get 3.75 kg or convert each to 1250 g then add
- **A1** 3750 g cao
- Answer: **3750 g**

Question 10

- **B1** Statement and reason that they are equal because $3/4\text{ L} = 750\text{ ml}$ (or $750\text{ ml} = 3/4\text{ L}$) cao
- Answer: **They are equal because $3/4\text{ L} = 0.75\text{ L} = 750\text{ ml}$**

Question 11

- **M1** Multiply 85 g by 7 to get 595 g seen
- **A1** 0.595 kg cao
- Answer: **0.595 kg**

Question 12

- **M1** Convert 2.5 L to 2500 ml and divide by 300 ml ($2500/300$) seen
- **A1** 8 plants cao
- Answer: **8**

Question 13

- **B1** 1800 mm cao
- Answer: **1800 mm**

Question 14

- **M1** Convert 0.8 L to 800 ml or compare quantities ($0.8 \text{ L} = 800 \text{ ml}$) method
- **A1** Yes; $800 \text{ ml} - 750 \text{ ml} = 50 \text{ ml}$ left cao
- Answer: **Yes; there is 50 ml left**

Question 15

- **M1** Find mass of one pack: $6 \times 120 \text{ g} = 720 \text{ g}$
- **M1** Multiply 720 g by 6 packs to get 4320 g
- **A1** 4.32 kg cao
- Answer: **4.32 kg**

Question 16

- **M1** Convert 0.45 kg to 450 g and multiply by 12 ($450 \times 12 = 5400 \text{ g}$) method
- **A1** 5400 g cao
- Answer: **5400 g**

Question 17

- **M1** Convert 2500 ml to 2.5 L seen
- **B1** State that 2500 ml is equal to 2.5 L cao
- **M1** Find difference $3.0 \text{ L} - 2.5 \text{ L} = 0.5 \text{ L}$ and convert to 500 ml
- Answer: **Yes; they are equal. 500 ml**

Question 18

- **B1** $2500 \text{ cm} = 25 \text{ m}$ seen
- **B1** Fraction $25/100 = 1/4$ in simplest form cao
- Answer: **25 m; 1/4**