



KS2.M-Y3M1 Measurement: Length, Mass and Capacity

Calculators not allowed · about 50 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A pencil is 12 cm long. Write the length in centimetres.

(1)

- 2** A toy car is 85 mm long and a toy train is 120 mm long. Which is longer? Tick one box and write how much longer it is.

(1)

- 3** Add the lengths 45 cm and 78 cm. Give your answer in centimetres.

(2)

- 4** A ribbon is 2 m 15 cm long. Lucy cuts off 80 cm. How much ribbon is left? Give your answer in metres and centimetres.

(2)

- 5** Write 1500 mm as metres and centimetres.

(1)

6 Order these lengths from shortest to longest: 0.9 m, 90 cm, 85 cm. Write them in that order.

(2)

7 A garden bed is a rectangle 2 m long and 75 cm wide. What is the perimeter of the bed? Give your answer in metres and centimetres.

(2)

8 A bag of sugar weighs 750 g. Mia buys 3 bags. What is the total mass in kilograms and grams?

(2)

9 A parcel weighs 1 kg 200 g. Ben adds stamps that weigh 85 g. What is the new mass in kilograms and grams?

(2)

10 Write 2500 g as kilograms and grams.

(1)

11 Add these capacities: 450 ml + 650 ml. Give your answer in litres and millilitres.

(2)

- 12** A water jug holds 2 litres. How many 250 ml cups can be filled from one full jug? Show working.

(3)

- 13** Which holds more: a bottle that is 750 ml or a bottle that is 0.8 litres? Tick the correct bottle.

(1)

- 14** Omar measured a rope of 3 m and cut off three pieces each 85 cm long. How much rope is left? Give your answer in metres and centimetres.

(3)

- 15** Ella pours 1 litre 250 ml of squash into two equal bottles. How much squash is in each bottle? Show your working.

(2)

- 16** An apple weighs 120 g, a banana weighs 0.15 kg and a pear weighs 95 g. Which piece of fruit is the heaviest? Explain your answer.

(3)

- 17** A ribbon is 1 m 40 cm long. Another ribbon is 140 cm long. Do these two ribbons have the same length? Explain your answer.

(2)

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- 18** Sarah had 3 kg 200 g of flour. She used 750 g for a cake. How much flour does she have left? Give your answer in kilograms and grams.

(2)

Mark scheme · KS2.M-Y3M1 Measurement: Length, Mass and Capacity

Question 1

- **B1** 12 cm cao
- Answer: **12 cm**

Question 2

- **B1** train and 35 mm cao
- Answer: **Toy train, 35 mm**

Question 3

- **M1** addition of 45 and 78 seen
- **A1** 123 cm cao
- Answer: **123 cm**

Question 4

- **M1** convert and subtract seen, e.g. $215 \text{ cm} - 80 \text{ cm} = 135 \text{ cm}$
- **A1** 1 m 35 cm cao
- Answer: **1 m 35 cm**

Question 5

- **B1** 1 m 50 cm cao
- Answer: **1 m 50 cm**

Question 6

- **M1** evidence of conversion or correct order with at least two placed correctly
- **A1** 85 cm, 90 cm, 0.9 m oe (accept 85 cm, 0.9 m, 90 cm, since 90 cm and 0.9 m are equal)
- Answer: **85 cm, 90 cm, 0.9 m (90 cm and 0.9 m are equal, so either order of the last two is correct)**

Question 7

- **M1** calculate $2 \times (200 \text{ cm} + 75 \text{ cm})$ or $2 \times (2 \text{ m} + 0.75 \text{ m})$ shown
- **A1** 5 m 50 cm cao
- Answer: **5 m 50 cm**

Question 8

- **M1** $750 \times 3 = 2250 \text{ g}$ or conversion method shown
- **A1** 2 kg 250 g cao
- Answer: **2 kg 250 g**

Question 9

- **M1** convert to grams: $1200 + 85 = 1285 \text{ g}$ or equivalent working
- **A1** 1 kg 285 g cao
- Answer: **1 kg 285 g**

Question 10

- **B1** 2 kg 500 g cao
- Answer: **2 kg 500 g**

Question 11

- **M1** $450 + 650 = 1100 \text{ ml}$ shown
- **A1** 1 litre 100 ml cao
- Answer: **1 litre 100 ml**

Question 12

- **M1** convert 2 litres to 2000 ml or equivalent
- **M1** division $2000 \div 250 = 8$ seen
- **A1** 8 cups cao
- **Answer: 8**

Question 13

- **B1** 0.8 litres cao (0.8 litres = 800 ml so greater than 750 ml)
- **Answer: 0.8 litres**

Question 14

- **M1** convert 3 m to 300 cm and subtract $3 \times 85 = 255$ cm shown
- **M1** $300 - 255 = 45$ cm or equivalent seen
- **A1** 45 cm cao
- **Answer: 45 cm**

Question 15

- **M1** convert 1 litre 250 ml to 1250 ml and divide by 2 shown
- **A1** 625 ml cao
- **Answer: 625 ml**

Question 16

- **M1** convert 0.15 kg to 150 g seen
- **M1** compare 150 g with 120 g and 95 g
- **A1** banana is heaviest cao
- **Answer: Banana**

Question 17

- **M1** convert 1 m 40 cm to 140 cm or show equivalence
- **A1** Yes, they are the same length cao
- **Answer: Yes**

Question 18

- **M1** convert 3 kg 200 g to 3200 g and subtract 750 g shown
- **A1** 2 kg 450 g cao
- **Answer: 2 kg 450 g**