5.4 Measurement: Length, Mass and Capacity: Test Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 50 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A pencil is 7 paperclips long. A crayon is 5 paperclips long. Circle the object that is longer.

(1)

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2 A thermometer shows 15 degrees. The temperature goes down by 2 degrees. What does it show now?

Answer: ___ degrees

(1)

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3 A book is 18 cm long. A pencil is 14 cm long. How much longer is the longer one?

Answer: ___ cm

(1)

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4 A crayon is placed on a ruler. One end is at 0 cm and the other end is at 3 cm.

How long is the crayon?

Answer: ___ cm

(1)

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5 A ribbon is placed on a ruler. One end is at 0 cm and the other end is at 10 cm.

How long is the ribbon?

Answer: ___ cm

(1)

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6 A ruler is 20 cm long. A book is 6 cm long. How much longer is the longer one?

Answer: ___ cm

(1)

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7 A box weighs 8 kg and a bag weighs 17 kg. Which is heavier? Write box or bag.

Answer: ___

(1)

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8 On Thursday the temperature was 29 degrees. On Wednesday it was 8 degrees. Which day was colder?

Answer: ___

(1)

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9 One box holds 11 litres. Another holds 10 litres. What is the difference?

Answer: ___ litres

(1)

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10 One box holds 27 litres. Another holds 8 litres. What is the difference?

Answer: ___ litres

(1)

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11 Freya measures the length of the classroom using her own footsteps. Jack measures the same classroom using his own footsteps. Their answers are different. Give one reason why measuring with footsteps might not give an accurate result.

(1)

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12 Three bags of sweets are weighed. Bag A weighs 45 g. Bag B is 20 g lighter than Bag A. Bag C is twice as heavy as Bag B. Work out the mass of Bag C, then write which bag is the heaviest. Show your working.

(4)

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13 A bag of apples balances against 8 cubes on a set of scales. A bag of pears balances against 6 cubes. Tick the bag that is heavier.

(1)

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14 A bag of flour weighs 1 kg. How many kg do 2 of them weigh altogether?

Answer: ___ kg

(1)

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15 A stick is 25 cm long. A ribbon is 10 cm long. Which is shorter?

Answer: ___

(1)

---

16 A thermometer shows 4 degrees. The temperature goes down by 2 degrees. What does it show now?

Answer: ___ degrees

(1)

---

17 A bag of potatoes weighs 5 kg. How many kg do 2 of them weigh altogether?

Answer: ___ kg

(1)

---

18 Three pupils measured the length of the school hall in footsteps. Ben: 42 footsteps. Olivia: 39 footsteps. Jamal: 45 footsteps. Order the pupils from fewest footsteps to most footsteps.

(2)

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19 A kitchen scale has marks at 10, 20, 30, 40, 50 and 60 kg. The pointer is exactly on the mark for 20.

What is the reading?

Answer: ___ kg

(1)

---

20 A measuring jug has marks at 30, 40, 50, 60, 70 and 80 ml. The pointer is halfway between 60 and 70.

What is the reading?

Answer: ___ ml

(1)

---

21 Which unit would you use to measure the height of a door?

Choose from: centimetres or metres.

Answer: ___

(1)

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22 A rope is 3 cm long. A rod is 7 cm long. How much longer is the longer one?

Answer: ___ cm

(1)

---

23 A leaf is placed on a ruler. One end is at 0 cm and the other end is at 9 cm.

How long is the leaf?

Answer: ___ cm

(1)

---

24 One box weighs 17 kg. Another weighs 7 kg. What is the difference?

Answer: ___ kg

(1)

---

25 A thermometer shows 5 degrees. The temperature goes up by 3 degrees. What does it show now?

Answer: ___ degrees

(1)

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26 A paper strip is placed on a ruler. One end is at 3 cm and the other end is at 16 cm.

How long is the paper strip?

Answer: ___ cm

(2)

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27 Cup A holds 90 ml of water. Cup B holds 65 ml of water. Work out which cup holds more water and find the difference in millilitres.

(2)

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28 A measuring jug has marks at 200, 300, 400, 500, 600 and 700 ml. The pointer is halfway between 500 and 600.

What is the reading?

Answer: ___ ml

(1)

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29 A book is 14 cm long. A rod is 4 cm long. Which is shorter?

Answer: ___

(1)

---

30 A stick is 9 cm long. A pencil is 28 cm long. Which is longer?

Answer: ___

(1)

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Mark scheme · 5.4 Measurement: Length, Mass and Capacity: Test Pack

Question 1

the pencil identified as longer, since 7 > 5 oe — **B1**

Answer: **The pencil**

Question 2

13 degrees cao — **B1**

Answer: **13 degrees**

Question 3

4 cm cao — **B1**

Answer: **4 cm**

Question 4

3 cm cao — **B1**

Answer: **3 cm**

Question 5

10 cm cao — **B1**

Answer: **10 cm**

Question 6

14 cm cao — **B1**

Answer: **14 cm**

Question 7

bag cao — **B1**

Answer: **bag**

Question 8

Wednesday cao — **B1**

Answer: **Wednesday**

Question 9

1 litres cao — **B1**

Answer: **1 litres**

Question 10

19 litres cao — **B1**

Answer: **19 litres**

Question 11

any valid reason relating to footsteps not being a fixed, standard unit, e.g. people's feet are different sizes / footsteps vary in length between people oe (accept any sensible equivalent reason) — **B1**

Answer: **Accept any valid reason, for example: people's footsteps are different lengths, so footsteps are not a standard (fixed) unit of measurement**

Question 12

Bag B found, 45 - 20 = 25 g oe — **M1**

Bag C found by doubling their Bag B, dep on previous method, 25 + 25 = 50 g oe, ft — **M1**

Bag C compared with Bag A, 50 > 45 oe, ft — **M1**

Bag C is 50 g and Bag C is the heaviest, cao — **A1**

Answer: **Bag C is 50 g, and Bag C is the heaviest**

Question 13

the bag of apples identified as heavier, since 8 > 6 oe — **B1**

Answer: **The bag of apples**

Question 14

2 kg cao — **B1**

Answer: **2 kg**

Question 15

ribbon cao — **B1**

Answer: **ribbon**

Question 16

2 degrees cao — **B1**

Answer: **2 degrees**

Question 17

10 kg cao — **B1**

Answer: **10 kg**

Question 18

at least two of the three values compared correctly oe — **M1**

Olivia, Ben, Jamal cao — **A1**

Answer: **Olivia (39), Ben (42), Jamal (45)**

Question 19

20 kg cao — **B1**

Answer: **20 kg**

Question 20

65 ml cao — **B1**

Answer: **65 ml**

Question 21

metres cao — **B1**

Answer: **metres**

Question 22

4 cm cao — **B1**

Answer: **4 cm**

Question 23

9 cm cao — **B1**

Answer: **9 cm**

Question 24

10 kg cao — **B1**

Answer: **10 kg**

Question 25

8 degrees cao — **B1**

Answer: **8 degrees**

Question 26

16 - 3 — **M1**

13 cm cao — **A1**

Answer: **13 cm**

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Question 27

correct subtraction set up, 90 - 65 oe	**M1**
Cup A, by 25 ml cao	**A1**

Answer: **Cup A holds more, by 25 ml**

Question 28

550 ml cao	**B1**

Answer: **550 ml**

Question 29

rod cao	**B1**

Answer: **rod**

Question 30

pencil cao	**B1**

Answer: **pencil**

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