7.1 Measurement: Length, Mass, Capacity, Time and Money: Test Pack

NCETM National Curriculum (2014) Mathematics - KS2 Measurement (Length, Mass, Capacity, Time and Money) · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Convert between units of length.

(a) Convert 3.5 m to cm. **(1)**

(b) Convert 2500 mm to m. **(1)**

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2 Amir buys a pencil case costing £3.65 and a notebook costing £2.80. He pays with a £10 note.

(a) How much does Amir spend in total? **(1)**

.....

(b) How much change does he get from £10? **(1)**

.....

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3 Mrs Okafor is making lemonade for a school fete. Each jug of lemonade needs 1.8 litres of water and 250 g of sugar. She has 10 litres of water and 1.5 kg of sugar available.

(a) Work out the maximum number of complete jugs she can make using only the water available. **(1)**

.....

(b) Work out the maximum number of complete jugs she can make using only the sugar available. **(1)**

.....

(c) How many complete jugs of lemonade can Mrs Okafor actually make, and how much water will be left over? **(2)**

---

4 Which of these months has 30 days? July, April, February

Answer: ___

(1)

---

5 Convert 17.2 m to cm.

Answer: ___ cm

(1)

---

6 Use 1 pint = 570 ml.

A jug holds 1,710 ml of water. How many pints is that?

Answer: ___ pints

(2)

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7 Show that 2.5 kilometres is equivalent to 250 000 centimetres.

(2)

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8 This is a clock. The hour hand is between 12 and 1. The minute hand is 4 small marks past the 1.

What time does the clock show? Write your answer as a digital time.

Answer: ___

(2)

---

9 The perimeter of a rectangular field is 156 m. The field is 42 m long.

(a) Work out the width of the field. **(3)**

(b) Work out the area of the field. **(1)**

---

10 A shop sells 3 cereal packs for £1.98 and 5 cereal packs for £4.05.

Which option costs less for each pack? Write 3 or 5 for the number of packs.

Answer: ___

(2)

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11 Isla plants a seed on 17 August. It flowers 8 days later.

On which date does it flower? Write the day number and month.

Answer: ___

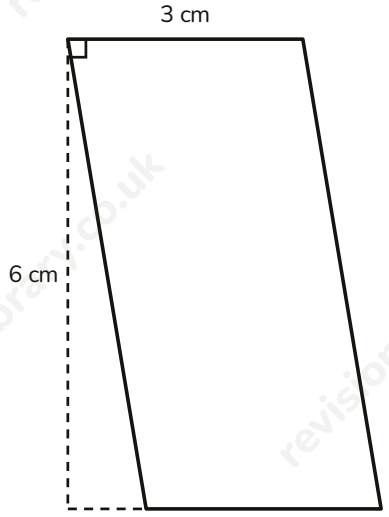
(1)

---

12 A parallelogram has a base of 3 cm and a perpendicular height of 6 cm.

What is its area in square centimetres?

Answer: ___



(2)

---

13 How many seconds are there in 11 minutes and 15 seconds?

Answer: ___

(1)

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14 Write 23:00 using am or pm.

Answer: ___

(1)

---

15 The 1st of the month is a Friday.

What day of the week is the 8th?

Answer: ___

(2)

---

16 Part of a train timetable is shown.

Eastleigh: 14:50
Ashby: 15:04
Dunmere: 15:44
Hollin: 16:10

Freya arrives at Ashby station at 14:53.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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17 Mia buys 4 balloons at £2.17 each, 4 notebooks at £3.59 each and 1 lolly at 74p each. Mia pays with £25.

How much change does Mia get?

Answer: £___

(3)

---

18 A parcel has a mass of 1.6 kg. A box has a mass of 950 g.

(a) Work out the total mass of the parcel and the box, giving your answer in kg. **(2)**

.....

(b) Round your answer to part a to the nearest 100 g. **(1)**

---

19 Daisy buys 3 lollies at £2.06 each and 2 notebooks at £3.88 each. Daisy pays with £15.

How much change does Daisy get?

Answer: £___

(2)

---

20 £1 = 3 francs.

How many francs do you get for £12?

Answer: ___ francs

(1)

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21 A scale in ml has big marks every 20 ml, with 4 equal small divisions between each big mark. The first big mark is 40. The pointer is 2 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

---

22 Part of a train timetable is shown.

Eastleigh: 11:50
Dunmere: 11:59
Carlow: 12:39
Ashby: 12:58

Poppy arrives at Eastleigh station at 11:40.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

---

23 Which is bigger, 9.4 m or 737 cm?

Answer: ___

(1)

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Mark scheme · 7.1 Measurement: Length, Mass, Capacity, Time and Money: Test Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

(a) 350 cm cao **B1**

(a) Answer: **350 cm**

(b) 2.5 m cao **B1**

(b) Answer: **2.5 m**

Question 2

(a) £6.45 cao **B1**

(a) Answer: **£6.45**

(b) £3.55 cao (ft from part a) **B1**

(b) Answer: **£3.55**

Question 3

(a) 5 jugs cao **B1**

(a) Answer: **5 jugs**

(b) 6 jugs cao **B1**

(b) Answer: **6 jugs**

(c) identifies water as the limiting ingredient, comparing 5 jugs (water) with 6 jugs (sugar), ft from parts a and b **M1**

(c) 5 jugs, with 1 litre of water left over cao **A1**

(c) Answer: **5 jugs, with 1 litre of water left over**

Question 4

April cao **B1**

Answer: **April**

Question 5

1,720 cm cao **B1**

Answer: **1,720 cm**

Question 6

divides by the conversion **M1**

3 cao **A1**

Answer: **3**

Question 7

2.5 km converted to 2500 m **M1**

2500 m converted to 250 000 cm cso **A1**

Answer: **250 000 cm (shown)**

Question 8

hour read correctly **M1**

12:09 cao **A1**

Answer: **12:09**

Question 9

(a) half the perimeter found, i.e. 78 m **M1**

(a) 42 subtracted from 78, or equivalent method **M1**

(a) 36 m cao **A1**

(a) Answer: **36 m**

(b) 1512 m^2 cao (ft from part a) **B1**

(b) Answer: **1512 m^2**

Question 10

works out a cost per pack for each option **M1**

3 cao **A1**

Answer: **3**

Question 11

25 August cao **B1**

Answer: **25 August**

Question 12

base x height **M1**

18 square centimetres cao **A1**

Answer: **18 square centimetres**

Question 13

675 cao **B1**

Answer: **675**

Question 14

11:00 pm cao **B1**

Answer: **11:00 pm**

Question 15

counts in 7s **M1**

Friday cao **A1**

Answer: **Friday**

Question 16

finds the wait between arriving and the departure time (counting on or subtracting) **M1**

11 minutes cao **A1**

Answer: **11 minutes**

Question 17

8.68 seen **M1**

total 23.78 seen **M1**

£1.22 cao **A1**

Answer: **£1.22**

Question 18

(a) 1.6 kg converted to 1600 g, or 950 g converted to 0.95 kg **M1**

(a) 2.55 kg cao **A1**

(a) Answer: **2.55 kg**

(b) 2.6 kg cao (ft from part a) **B1**

(b) Answer: **2.6 kg**

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Question 19

6.18 seen	M1
£1.06 cao	A1

Answer: **£1.06**

Question 20

36 francs cao	B1

Answer: **36 francs**

Question 21

size of a small division found	M1
70 ml cao	A1

Answer: **70 ml**

Question 22

finds the wait between arriving and the departure time (counting on or subtracting)	M1
10 minutes cao	A1

Answer: **10 minutes**

Question 23

9.4 m cao	B1

Answer: **9.4 m**

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