7.1 Measurement: Length, Mass, Capacity, Time and Money: 1-hour 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 Uma buys 5 puzzles at £2.62 each, 2 buns at £2.71 each and 5 scarves at £3.05 each. Uma pays with £35.

How much change does Uma get?

Answer: £___

(3)

2 Convert 3.23 m to mm.

Answer: ___ mm

(1)

3 Mei runs 2.3 km on Monday and 1750 m on Tuesday.

(a) Work out the total distance she runs over the two days, giving your answer in km. **(2)**

.....

(b) Give the total distance in metres. **(1)**

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4 A rectangle is 16 mm long and 18 mm wide.

What is its perimeter?

Answer: ___ mm

(2)

---

5 A rectangle measures 10 m by 9 m. A smaller rectangle 6 m by 5 m is cut out of one corner.

What is the area of the shape that is left, in square metres?

Answer: ___

(3)

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6 Convert 350 mm to cm.

Answer: ___ cm

(1)

---

7 Which is bigger, 9.2 litres or 8,990 ml?

Answer: ___

(2)

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8 Convert 52,300 mm to m.

Answer: ___ m

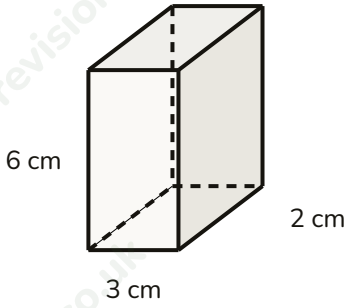
(1)

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9 A box is 3 cm long, 2 cm wide and 6 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___



(1)

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10 Write 11:45 am as a 24-hour clock time.

Answer: ___

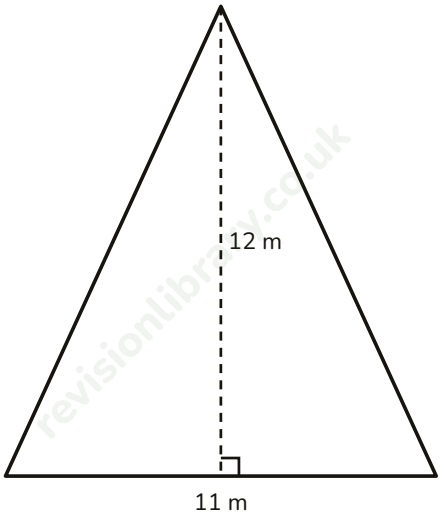
(1)

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11 A triangle has a base of 11 m and a perpendicular height of 12 m.

What is its area in square metres?

Answer: ___

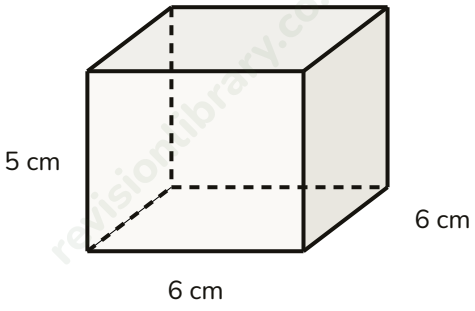


(2)

12 A box is 6 cm long, 6 cm wide and 5 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___



(2)

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13 A lesson finishes at 13:54 after taking 2 hours 57 minutes.

What time did it start? Write your answer as a 24-hour clock time.

Answer: ___

(2)

---

14 A recipe for 8 flapjacks needs 150 g of butter, 120 g of oats and 90 g of sugar.

(a) Work out the total mass of ingredients needed to make 8 flapjacks. **(1)**

(b) Selin wants to make 20 flapjacks instead. Work out the total mass of ingredients she needs, giving your answer in kg. **(2)**

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15 A bus timetable shows buses to town leaving at 08:52, 09:24 and 10:03. Farah arrives at the bus stop at 08:58.

(a) Which bus will she catch? **(1)**

(b) How long will she have to wait, in minutes? **(2)**

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16 A shop sells orange juice in two sizes: a 750 ml bottle for £2.25, and a 1.2 litre bottle for £3.30. Which bottle offers better value for money? You must show your working.

(3)

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17 How many days are there in October and November together? (Use 28 days for February.)

Answer: ___ days

(1)

---

18 A notebook costs £6.49 and a sandwich costs £1.82.

How much more does the dearer item cost?

Answer: £___

(1)

---

19 Noah buys 3 posters at £3.57 each and 2 buns at £3.35 each. Noah pays with £20.

How much change does Noah get?

Answer: £___

(2)

---

20 Use 1 inch = 2.5 cm.

A strip of card is 5 inches long. How long is it in cm?

Answer: ___ cm

(2)

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21 Part of a train timetable is shown.

Carlow: 10:35
Dunmere: 11:06
Eastleigh: 11:24
Ashby: 11:57

Priya arrives at Dunmere station at 10:55.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

---

22 Convert 19 cm to mm.

Answer: ___ mm

(1)

---

23 The 1st of the month is a Friday.

What day of the week is the 17th?

Answer: ___

(2)

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24 Use 1 pint = 570 ml.

A jug holds 3,420 ml of water. How many pints is that?

Answer: ___ pints

(1)

---

25 A scale in ml has big marks every 100 ml, with 10 equal small divisions between each big mark. The first big mark is 300. The pointer is 1 small division after the second big mark.

What is the reading?

Answer: ___ ml

(1)

---

26 This is a clock. The hour hand is between 10 and 11. The minute hand is 2 small marks past the 2.

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

Answer: ___

(1)

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Mark scheme · 7.1 Measurement: Length, Mass, Capacity, Time and Money: 1-hour Pack

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

Question 1

13.10 seen	M1
total 33.77 seen	M1
£1.23 cao	A1

Answer: **£1.23**

Question 2

3,230 mm cao	B1

Answer: **3,230 mm**

Question 3

(a) 1750 m converted to 1.75 km	M1
(a) 4.05 km cao	A1

(a) Answer: **4.05 km**

(b) 4050 m cao (ft from part a)	B1

(b) Answer: **4050 m**

Question 4

adds all four sides or doubles l + w	M1
68 mm cao	A1

Answer: **68 mm**

Question 5

finds both areas	M1
subtracts	M1
60 square metres cao	A1

Answer: **60 square metres**

Question 6

35 cm cao	B1

Answer: **35 cm**

Question 7

converts to the same unit	M1
9.2 litres cao	A1

Answer: **9.2 litres**

Question 8

52.3 m cao	B1

Answer: **52.3 m**

Question 9

36 cao	B1

Answer: **36**

Question 10

11:45 cao	B1

Answer: **11:45**

Question 11

11 x 12 / 2 seen	M1
66 square metres cao	A1

Answer: **66 square metres**

Question 12

volume formula seen	M1
180 cao	A1

Answer: **180**

Question 13

subtracts hours then minutes	M1
10:57 cao	A1

Answer: **10:57**

Question 14

(a) 360 g cao	B1

(a) Answer: **360 g**

(b) scale factor of 2.5 (20 / 8) found, or equivalent scaling method	M1
(b) 0.9 kg cao (ft from part a)	A1

(b) Answer: **0.9 kg**

Question 15

(a) 09:24 cao, with reason that the 08:52 bus has already left	B1

(a) Answer: **The 09:24 bus**

(b) correct partial step shown, e.g. 08:58 to 09:00 = 2 minutes	M1
(b) 26 minutes cao	A1

(b) Answer: **26 minutes**

Question 16

cost per 100 ml found for the 750 ml bottle, e.g. £0.30 per 100 ml	M1
cost per 100 ml found for the 1.2 litre bottle, e.g. £0.275 per 100 ml	M1
correct conclusion that the 1.2 litre bottle is better value, with comparison stated	A1

Answer: **The 1.2 litre bottle is better value (£0.275 per 100 ml compared with £0.30 per 100 ml)**

Question 17

61 days cao	B1

Answer: **61 days**

Question 18

£4.67 cao	B1

Answer: **£4.67**

Question 19

10.71 seen	M1
£2.59 cao	A1

Answer: **£2.59**

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Question 20

multiplies by the conversion	**M1**
12.5 cm cao	**A1**

Answer: **12.5 cm**

Question 21

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

Answer: **11 minutes**

Question 22

190 mm cao	**B1**

Answer: **190 mm**

Question 23

counts in 7s	**M1**
Sunday cao	**A1**

Answer: **Sunday**

Question 24

6 cao	**B1**

Answer: **6**

Question 25

410 ml cao	**B1**

Answer: **410 ml**

Question 26

10:12 cao	**B1**

Answer: **10:12**

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