7.1 Measurement: Length, Mass, Capacity, Time and Money: 2-hour Pack

NCETM National Curriculum (2014) Mathematics - KS2 Measurement (Length, Mass, Capacity, Time and Money) · Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A lesson finishes at 12:18 after taking 5 hours 27 minutes.

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

Answer: ___

(2)

2 Write 207p in pounds.

Answer: £___

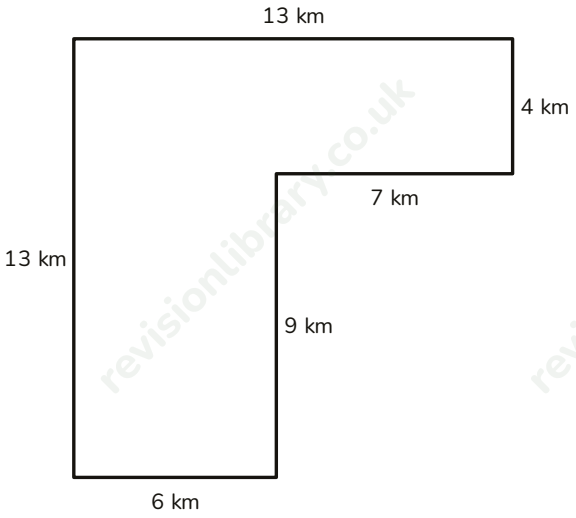
(1)

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3 An L-shaped floor has these sides in order around the shape: 13 km, 4 km, 7 km, 9 km, 6 km, 13 km.

What is the perimeter of the floor?

Answer: ___ km



(2)

4 Which is bigger, 1.2 kg or 1,573 g?

Answer: ___

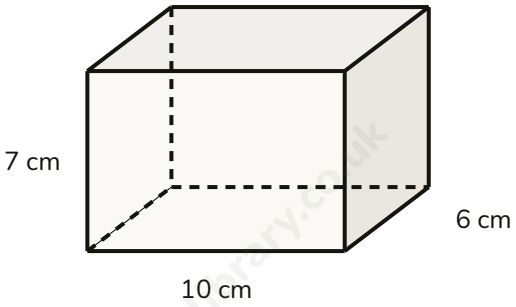
(1)

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5 A cuboid measures 10 cm by 6 cm by 7 cm.

What is its volume in cubic centimetres?

Answer: ___ cm cubed



(2)

---

6 A shop sells 5 pens packs for £2.40 and 10 pens packs for £2.97.

Which option costs less for each pack? Write 5 or 10 for the number of packs.

Answer: ___

(2)

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7 Part of a train timetable is shown.

Carlow: 14:25
Grange: 14:43
Fenwick: 14:58
Bridgton: 15:17

Sofia arrives at Grange station at 14:18.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

---

8 The 1st of the month is a Wednesday.

What day of the week is the 24th?

Answer: ___

(1)

---

9 A rectangle is 27 km long and 21 km wide.

What is its perimeter?

Answer: ___ km

(2)

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10 Hassan buys 4 kites at £2.56 each and 3 notebooks at £3.24 each. Hassan pays with £20.

How much change does Hassan get?

Answer: £___

(2)

---

11 £1 = 10 dollars.

How many dollars do you get for £16?

Answer: ___ dollars

(1)

---

12 Convert 425 mm to cm.

Answer: ___ cm

(1)

---

13 A pen costs £9.58 and a ruler costs £13.07. Femi pays with a £25 note.

How much change does Femi get?

Answer: £___

(2)

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14 A bottle holds 300 ml of squash. Poppy fills glasses that each hold 150 ml.

How many glasses can be filled?

Answer: ___

(1)

---

15 Use 1 pint = 570 ml.

A jug holds 6 pints of water. How much is that in ml?

Answer: ___ ml

(2)

---

16 Grace buys 3 scarves at £2.17 each and 1 balloon at £2.37 each. Grace pays with £10.

How much change does Grace get?

Answer: £___

(2)

---

17 A rectangle measures 16 m by 6 m. A smaller rectangle 6 m by 2 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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18 Kofi buys a bag of potatoes weighing 4.7 kg and a bag of carrots weighing 503 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

19 Part of a train timetable is shown.

Bridgton: 12:40
Carlow: 13:20
Hollin: 13:33
Fenwick: 13:57

How many minutes does the train take to travel from Hollin to Fenwick?

Answer: ___ minutes

(2)

---

20 A pen costs £10.56 and a biscuit costs £6.23.

How much more does the dearer item cost?

Answer: £___

(2)

---

21 Which is bigger, 1.5 litres or 1,378 ml?

Answer: ___

(1)

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22 A rectangular football pitch marking is 45 m long and 27 m wide.

(a) Work out the perimeter of the pitch, in metres. **(2)**

.....

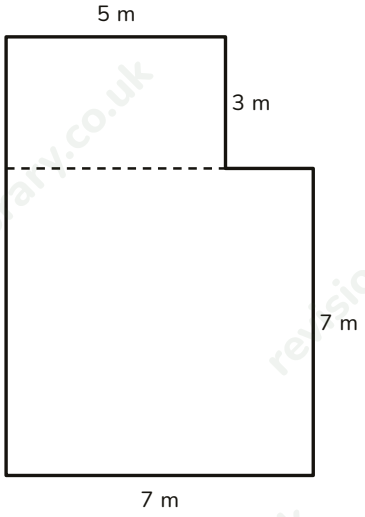
(b) Give the perimeter in km. **(1)**

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23 An L-shape is made from two rectangles joined together. The first rectangle is 5 m by 3 m. The second is 7 m by 7 m.

What is the total area of the L-shape in square metres?

Answer: ___



(2)

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24 A toy car costs £2.08 and a rubber costs £12.33.

How much more does the dearer item cost?

Answer: £___

(1)

---

25 Which is bigger, 6.8 kg or 7,120 g?

Answer: ___

(2)

---

26 A ribbon is 7 m long. Kiran cuts it into pieces that are each 40 cm long.

How many pieces does Kiran cut?

Answer: ___

(2)

---

27 Convert 2,300 cm to m.

Answer: ___ m

(1)

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28 Lily plants a seed on 20 April. It flowers 6 days later.

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

Answer: ___

(1)

---

29 Which is bigger, 4.8 kg or 5,159 g?

Answer: ___

(2)

---

30 A coach leaves at 18:30 and takes 33 minutes.

What time does it finish? Write your answer as a 24-hour clock time.

Answer: ___

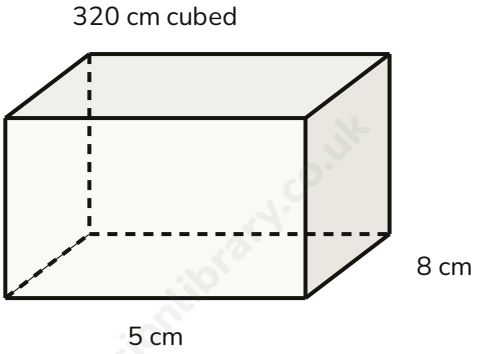
(1)

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31 A cuboid has a volume of 320 cm cubed. Its length is 5 cm and its width is 8 cm.

What is its height?

Answer: ___ cm



(2)

---

32 A rectangle is 8 mm long and 5 mm wide.

What is its area in square millimetres?

Answer: ___

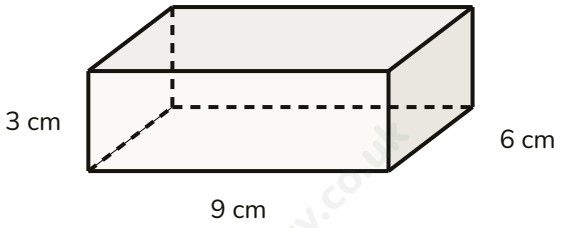
(1)

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

How many cubes are needed to fill the box?

Answer: ___



(1)

---

34 A lesson starts at 10:02 and ends at 14:33.

How many minutes does it take?

Answer: ___ minutes

(2)

---

35 Use 1 pint = 570 ml.

A jug holds 2,280 ml of water. How many pints is that?

Answer: ___ pints

(2)

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36 Ravi buys a bag of potatoes weighing 1.9 kg and a bag of carrots weighing 643 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

37 Write 23:55 using am or pm.

Answer: ___

(1)

---

38 A ruler costs £17.87 and a rubber costs £16.67.

How much more does the dearer item cost?

Answer: £___

(2)

---

39 Oscar buys 2 buns at £2.24 each, 3 comics at £1.56 each and 1 puzzle at £2.64 each. Oscar pays with £15.

How much change does Oscar get?

Answer: £___

(3)

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40 A train leaves the station at 09:47 and arrives at its destination at 12:15.

(a) Work out how long the journey takes. **(2)**

(b) The train was scheduled to take 2 hours 15 minutes. How many minutes late did it arrive? **(1)**

41 How many days are there in 4 weeks and 4 days?

Answer: ___

(1)

42 This is a clock. The hour hand is between 1 and 2. The minute hand points exactly to 7.

What time does the clock show? Write your answer in words, using past or to.

Answer: ___

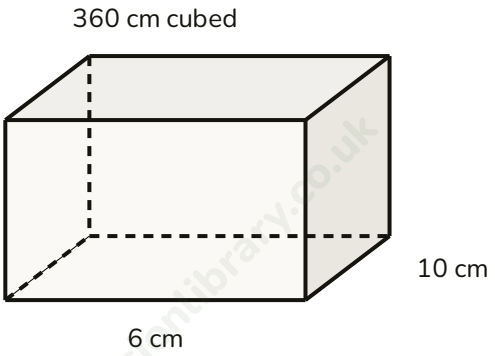
(1)

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43 A cuboid has a volume of 360 cm cubed. Its length is 6 cm and its width is 10 cm.

What is its height?

Answer: ___ cm

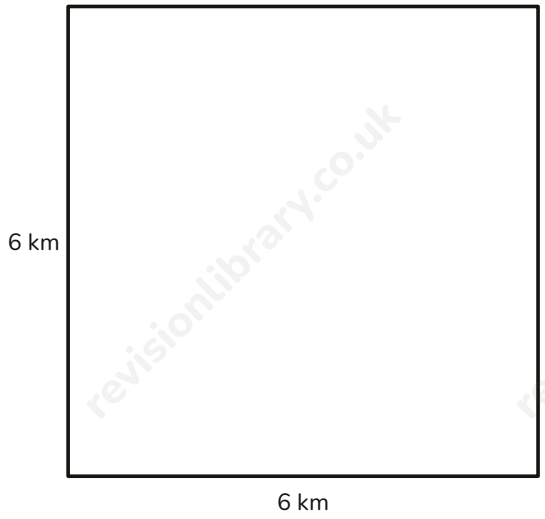


(2)

44 A square has sides of length 6 km.

What is its perimeter?

Answer: ___ km



(1)

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45 Convert 3,100 mm to m.

Answer: ___ m

(1)

---

46 Quinn buys a bag of potatoes weighing 2.5 kg and a bag of carrots weighing 936 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

47 Which is bigger, 6.4 kg or 6,776 g?

Answer: ___

(2)

---

48 A train finishes at 19:26 after taking 1 hour 0 minutes.

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

Answer: ___

(1)

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49 Grapes cost £1.85 per 500 g. Chidi buys 1.5 kg of grapes.

(a) Work out the total cost of the grapes. **(2)**

.....

(b) Chidi pays with a £10 note. How much change does he get? **(1)**

.....

50 Use 1 pint = 570 ml.

A jug holds 10 pints of water. How much is that in ml?

Answer: ___ ml

(2)

51 Part of a train timetable is shown.

Hollin: 12:55
Eastleigh: 13:04
Bridgton: 13:24
Grange: 13:53

How many minutes does the train take to travel from Hollin to Grange?

Answer: ___ minutes

(1)

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52 The 1st of the month is a Sunday.

What day of the week is the 25th?

Answer: ___

(2)

---

53 Which is bigger, 8.7 km or 8,532 m?

Answer: ___

(2)

---

54 £1 = 5 zlotys.

A toy costs 210 zlotys. How much is that in pounds?

Answer: £___

(1)

---

55 A scale in ml has big marks every 50 ml, with 5 equal small divisions between each big mark. The first big mark is 50. The pointer is 1 small division after the second big mark.

What is the reading?

Answer: ___ ml

(2)

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Mark scheme · 7.1 Measurement: Length, Mass, Capacity, Time and Money: 2-hour Pack

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

Question 1

subtracts hours then minutes — M1
06:51 cao — A1
Answer: **06:51**

Question 2

£2.07 cao — B1
Answer: **£2.07**

Question 3

adds all six sides — M1
52 km cao — A1
Answer: **52 km**

Question 4

1,573 g cao — B1
Answer: **1,573 g**

Question 5

multiplies two dimensions — M1
420 cm cubed cao — A1
Answer: **420 cm cubed**

Question 6

works out a cost per pack for each option — M1
10 cao — A1
Answer: **10**

Question 7

finds the wait between arriving and the departure time (counting on or subtracting) — M1
25 minutes cao — A1
Answer: **25 minutes**

Question 8

Friday cao — B1
Answer: **Friday**

Question 9

adds all four sides or doubles l + w — M1
96 km cao — A1
Answer: **96 km**

Question 10

10.24 seen — M1
£0.04 cao — A1
Answer: **£0.04**

Question 11

160 dollars cao — B1
Answer: **160 dollars**

Question 12

42.5 cm cao — B1
Answer: **42.5 cm**

Question 13

22.65 seen — M1
£2.35 cao — A1
Answer: **£2.35**

Question 14

2 cao — B1
Answer: **2**

Question 15

multiplies by the conversion — M1
3,420 ml cao — A1
Answer: **3,420 ml**

Question 16

6.51 seen — M1
£1.12 cao — A1
Answer: **£1.12**

Question 17

finds both areas — M1
subtracts — M1
84 square metres cao — A1
Answer: **84 square metres**

Question 18

503 g = 0.503 kg seen — M1
5.203 kg cao — A1
Answer: **5.203 kg**

Question 19

finds the difference between the two times (counting on or subtracting) — M1
24 minutes cao — A1
Answer: **24 minutes**

Question 20

subtraction method — M1
£4.33 cao — A1
Answer: **£4.33**

Question 21

1.5 litres cao — B1
Answer: **1.5 litres**

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Question 22

(a) correct method seen, e.g. 45 + 27 or 2 x 45 + 2 x 27 **M1**

(a) 144 m cao **A1**

(a) Answer: **144 m**

(b) 0.144 km cao (ft from part a) **B1**

(b) Answer: **0.144 km**

Question 23

finds the area of each rectangle **M1**

64 square metres cao **A1**

Answer: **64 square metres**

Question 24

£10.25 cao **B1**

Answer: **£10.25**

Question 25

converts to the same unit **M1**

7,120 g cao **A1**

Answer: **7,120 g**

Question 26

7 m = 700 cm seen **M1**

17 cao **A1**

Answer: **17**

Question 27

23 m cao **B1**

Answer: **23 m**

Question 28

26 April cao **B1**

Answer: **26 April**

Question 29

converts to the same unit **M1**

5,159 g cao **A1**

Answer: **5,159 g**

Question 30

19:03 cao **B1**

Answer: **19:03**

Question 31

5 x 8 = 40 seen **M1**

8 cm cao **A1**

Answer: **8 cm**

Question 32

40 square millimetres cao **B1**

Answer: **40 square millimetres**

Question 33

162 cao **B1**

Answer: **162**

Question 34

counts on to the next hour or minutes calculation **M1**

271 minutes cao **A1**

Answer: **271 minutes**

Question 35

divides by the conversion **M1**

4 cao **A1**

Answer: **4**

Question 36

643 g = 0.643 kg seen **M1**

2.543 kg cao **A1**

Answer: **2.543 kg**

Question 37

11:55 pm cao **B1**

Answer: **11:55 pm**

Question 38

subtraction method **M1**

£1.20 cao **A1**

Answer: **£1.20**

Question 39

4.48 seen **M1**

total 11.80 seen **M1**

£3.20 cao **A1**

Answer: **£3.20**

Question 40

(a) correct partial step shown, e.g. 09:47 to 10:00 = 13 minutes, or times converted to minutes past midnight **M1**

(a) 2 hours 28 minutes cao **A1**

(a) Answer: **2 hours 28 minutes**

(b) 13 minutes cao (ft from part a) **B1**

(b) Answer: **13 minutes**

Question 41

32 cao **B1**

Answer: **32**

Question 42

25 minutes to 2 cao **B1**

Answer: **25 minutes to 2**

Question 43

6 x 10 = 60 seen **M1**

6 cm cao **A1**

Answer: **6 cm**

Question 44

24 km cao **B1**

Answer: **24 km**

Question 45

3.1 m cao **B1**

Answer: **3.1 m**

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Question 46

936 g = 0.936 kg seen	M1
3.436 kg cao	A1

Answer: **3.436 kg**

Question 47

converts to the same unit	M1
6,776 g cao	A1

Answer: **6,776 g**

Question 48

18:26 cao	B1

Answer: **18:26**

Question 49

(a) 1.5 kg recognised as 3 lots of 500 g, or equivalent scaling method	M1
(a) £5.55 cao	A1

(a) Answer: **£5.55**

(b) £4.45 cao (ft from part a)	B1

(b) Answer: **£4.45**

Question 50

multiplies by the conversion	M1
5,700 ml cao	A1

Answer: **5,700 ml**

Question 51

58 minutes cao	B1

Answer: **58 minutes**

Question 52

counts in 7s	M1
Wednesday cao	A1

Answer: **Wednesday**

Question 53

converts to the same unit	M1
8.7 km cao	A1

Answer: **8.7 km**

Question 54

£42 cao	B1

Answer: **£42**

Question 55

size of a small division found	M1
110 ml cao	A1

Answer: **110 ml**

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