7.1 Measurement: Length, Mass, Capacity, Time and Money: 30-minute Pack

NCETM National Curriculum (2014) Mathematics - KS2 Measurement (Length, Mass, Capacity, Time and Money) · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Convert between units of capacity.

(a) Convert 2.75 l to ml. **(1)**

(b) Convert 340 ml to l. **(1)**

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2 Convert between 12-hour and 24-hour clock times.

(a) Write 7:45 pm as a 24-hour time. **(1)**

(b) Write 15:20 as a 12-hour time, including am or pm. **(1)**

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3 Fencing costs £12.50 per metre. Yusuf needs to fence three sides of a rectangular garden that is 9 m long and 6 m wide. The fourth side (one of the 9 m sides) is against a wall and does not need fencing.

(a) Work out the total length of fencing needed. **(2)**

.....

(b) Work out the total cost of the fencing. **(2)**

.....

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4 Three pieces of ribbon have a total length of 4.5 m. The first ribbon is 180 cm long. The second ribbon is 95 cm long. Work out the length of the third ribbon, giving your answer in millimetres.

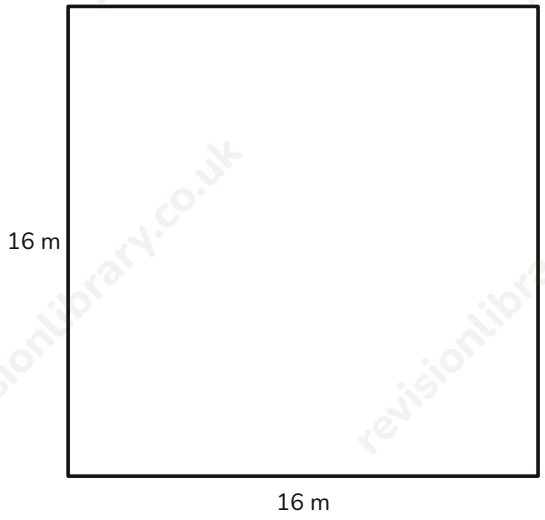
(3)

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5 A square has sides of length 16 m.

What is its area in square metres?

Answer: ___



(1)

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6 A shop sells 6 pasta packs for £2.21 and 4 pasta packs for £0.87.

Which option costs less for each pack? Write 6 or 4 for the number of packs.

Answer: ___

(2)

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7 Write 5:50 am as a 24-hour clock time.

Answer: ___

(1)

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8 Use 1 pint = 570 ml.

A jug holds 6,840 ml of water. How many pints is that?

Answer: ___ pints

(2)

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9 Which is bigger, 1.8 km or 1,942 m?

Answer: ___

(2)

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10 The 1st of the month is a Thursday.

What day of the week is the 26th?

Answer: ___

(1)

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11 A scale in ml has big marks every 250 ml, with 10 equal small divisions between each big mark. The first big mark is 1250. The pointer is 2 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

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12 This is a clock. The hour hand is between 11 and 12. The minute hand is 3 small marks past the 6.

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

Answer: ___

(2)

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Mark scheme · 7.1 Measurement: Length, Mass, Capacity, Time and Money: 30-minute Pack

Question 1

(a) 2750 ml cao — **B1**

(a) Answer: **2750 ml**

(b) 0.34 l cao — **B1**

(b) Answer: **0.34 l**

Question 2

(a) 19:45 cao — **B1**

(a) Answer: **19:45**

(b) 3:20 pm cao — **B1**

(b) Answer: **3:20 pm**

Question 3

(a) correct total length method, e.g. 9 + 6 + 6 (one long side and both short sides only) — **M1**

(a) 21 m cao — **A1**

(a) Answer: **21 m**

(b) 21 x 12.50 set up (ft from part a) — **M1**

(b) £262.50 cao — **A1**

(b) Answer: **£262.50**

Question 4

4.5 m converted to 450 cm — **M1**

450 - 180 - 95 = 175 cm found, or equivalent combining method — **M1**

1750 mm cao — **A1**

Answer: **1750 mm**

Question 5

256 square metres cao — **B1**

Answer: **256 square metres**

Question 6

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

4 cao — **A1**

Answer: **4**

Question 7

05:50 cao — **B1**

Answer: **05:50**

Question 8

divides by the conversion — **M1**

12 cao — **A1**

Answer: **12**

Question 9

converts to the same unit — **M1**

1,942 m cao — **A1**

Answer: **1,942 m**

Question 10

Monday cao — **B1**

Answer: **Monday**

Question 11

size of a small division found — **M1**

1550 ml cao — **A1**

Answer: **1550 ml**

Question 12

hour read correctly — **M1**

11:33 cao — **A1**

Answer: **11:33**

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