2.32-2 Measurement, Money and Time Depth Set 2: 30-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A bus timetable shows departures from Oak Road: 07:20, 08:00, 08:40, 09:20 (every 40 minutes). Each journey to the Town Centre takes 18 minutes.

(a) At what time does the 08:00 bus arrive at the Town Centre? **(1)**

(b) Sam reaches the bus stop at Oak Road at 07:55, just missing a bus. How many minutes must he wait for the next bus? **(2)**

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2 A cyclist rides at a constant speed of 15 km/h for 1 hour 45 minutes. Calculate the distance travelled.

(2)

3 A water bottle holds 600 ml. Calculate how many complete bottles can be filled from a 4.5 litre container.

(2)

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4 A market stall sells cherries at £5.00 per kg. Sadia buys 480 g of cherries.

(a) Calculate the cost of the cherries Sadia buys. **(2)**

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(b) Sadia pays with a £5 note. Calculate her change. **(2)**

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5 Which of these is equal to 0.65 kg?

- ☐ A) 65 g
- ☐ B) 650 g
- ☐ C) 6500 g
- ☐ D) 6.5 g

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6 Ronan drives from his home to Aldbury, a distance of 30 km, at an average speed of 60 km/h. He then drives from Aldbury to Bishton, a distance of 72 km, at an average speed of 48 km/h.

(a) Calculate the time taken for each part of Ronan's journey. **(2)**

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(b) Calculate Ronan's average speed for the whole journey, in km/h. **(2)**

.....

(c) Ronan needs to arrive in Bishton by 15:30 and leaves home at 12:45. Explain, with a reason, whether he will arrive on time. **(2)**

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7 A coach departs Aldergate at 06:50 and is booked to arrive at Brindley Cross at 07:35. A connecting train departs Brindley Cross at 07:40 and arrives at Caldermoor at 08:22.

(a) The coach actually runs 11 minutes late. At what time does it now arrive at Brindley Cross? **(1)**

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(b) Explain whether Farida, who is travelling on the coach, will catch the connecting train to Caldermoor. **(2)**

.....

.....

(c) The next train departs Brindley Cross at 08:20 and takes the same journey time as the original train. At what time will Farida now arrive at Caldermoor? **(2)**

.....

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8 A hosepipe fills a paddling pool at a constant rate. It takes 30 minutes to fill 450 litres.

(a) Calculate the rate of flow, in litres per minute. **(2)**

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(b) At this rate, calculate how long it would take to fill a paddling pool with a capacity of 600 litres. Give your answer in minutes. **(2)**

.....

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9 Convert each of these capacities.

(a) Convert 2400 ml into litres. **(1)**

(b) Convert 3.75 litres into millilitres. **(1)**

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10 A set of kitchen scales is marked in intervals of 100 g, from 0 g to 1000 g. The needle rests exactly on the 6th mark after the 0 g mark. What mass does the scale show?

(1)

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11 Ben buys a snack costing 65p. He pays with a £2 coin. How much change should he receive?

(1)

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12 Farah uses a set of bathroom scales. The dial is numbered every 20 kg, with 4 equally spaced unlabelled small divisions between each pair of numbered marks. The needle points to the 2nd small division after the 40 kg mark.

(a) State the value of each small division, in kg. **(1)**

(b) Calculate the mass, in kg, that the needle is pointing to. **(1)**

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Mark scheme · 2.32-2 Measurement, Money and Time Depth Set 2: 30-minute Pack

Question 1

(a) 08:18 cao **B1**

(a) Answer: 08:18

(b) Identifies the next departure after 07:55 as 08:00 **M1**

(b) 5 minutes cao **A1**

(b) Answer: 5 minutes

Question 2

Converts 1 hour 45 minutes to 1.75 hours (oe) **M1**

26.25 km cao **A1**

Answer: 26.25 km

Question 3

4500 / 600 (oe, converts litres to ml) **M1**

7 cao **A1**

Answer: 7 bottles

Question 4

(a) Converts 480 g to 0.48 kg (oe) **M1**

(a) £2.40 cao **A1**

(a) Answer: £2.40

(b) 5.00 - their (a) (ft) **M1**

(b) £2.60 cao (ft) **A1**

(b) Answer: £2.60

Question 5

B cao **B1**

Answer: B) 650 g

Question 6

(a) 30 minutes for the home to Aldbury leg **B1**

(a) 1 hour 30 minutes for the Aldbury to Bishton leg **B1**

(a) Answer: Home to Aldbury: 30 minutes; Aldbury to Bishton: 1 hour 30 minutes

(b) Average speed = total distance / total time, ft (e.g. (30 + 72) / 2) **M1**

(b) 51 km/h cao **A1**

(b) Answer: 51 km/h

(c) Adds the total journey time to 12:45, ft (e.g. 12:45 + 2:00 = 14:45) **M1**

(c) Yes, with correct reason ft (14:45 is before 15:30, so he arrives with 45 minutes to spare) **A1**

(c) Answer: Yes; he arrives at 14:45, which is 45 minutes before 15:30.

Question 7

(a) 07:46 cao **B1**

(a) Answer: 07:46

(b) No, ft from (a) **B1**

(b) Correct reason: the coach now arrives at 07:46, which is 6 minutes after the train has already departed at 07:40 **B1**

(b) Answer: No; the coach now arrives at 07:46, 6 minutes after the train has already left at 07:40.

(c) Finds the original train's journey time is 08:22 - 07:40 = 42 minutes **M1**

(c) 09:02 cao **A1**

(c) Answer: 09:02

Question 8

(a) 450 / 30 (oe) **M1**

(a) 15 litres per minute cao **A1**

(a) Answer: 15 litres per minute

(b) 600 / 15 (oe, using their rate ft from part a) **M1**

(b) 40 minutes cao **A1**

(b) Answer: 40 minutes

Question 9

(a) 2.4 litres cao **B1**

(a) Answer: 2.4 litres

(b) 3750 ml cao **B1**

(b) Answer: 3750 ml

Question 10

600 g cao **B1**

Answer: 600 g

Question 11

£1.35 cao (accept 135p) **B1**

Answer: £1.35

Question 12

(a) 4 kg cao **B1**

(a) Answer: 4 kg

(b) 48 kg cao **B1**

(b) Answer: 48 kg

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