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

Total Marks

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A bus timetable shows departures from Elm Street: 08:10, 08:50, 09:30, 10:10 (every 40 minutes). Each journey to the Retail Park takes 22 minutes.

(a) At what time does the 08:50 bus arrive at the Retail Park? **(1)**

(b) Kwame reaches the bus stop at Elm Street at 09:05, 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 18 km/h for 2 hours 30 minutes. Calculate the distance travelled.

(2)

3 A water bottle holds 750 ml. Calculate how many complete bottles can be filled from a 5 litre container.

(2)

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4 A market stall sells cherries at £4.80 per kg. Tariq buys 650 g of cherries.

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

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(b) Tariq pays with a £5 note. Calculate his change. **(2)**

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5 Which of these is equal to 0.75 kg?

- ☐ A) 75 g
- ☐ B) 750 g
- ☐ C) 7500 g
- ☐ D) 7.5 g

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6 Ronan drives from his home to Newcastle, a distance of 25 km, at an average speed of 50 km/h. He then drives from Newcastle to Durham, a distance of 65 km, at an average speed of 65 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 Durham by 14:00 and leaves home at 12:15. Explain, with a reason, whether he will arrive on time. **(2)**

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7 A coach departs Hartley Green at 07:20 and is booked to arrive at Millfield Junction at 08:05. A connecting train departs Millfield Junction at 08:10 and arrives at Oakbridge at 08:52.

(a) The coach actually runs 8 minutes late. At what time does it now arrive at Millfield Junction? **(1)**

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

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.....

(c) The next train departs Millfield Junction at 08:45 and takes the same journey time as the original train. At what time will Jamie now arrive at Oakbridge? **(2)**

.....

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8 A garden hose fills a paddling pool at a constant rate. It takes 25 minutes to fill 375 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 540 litres. Give your answer in minutes. **(2)**

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9 Convert each of these capacities.

(a) Convert 3800 ml into litres. **(1)**

(b) Convert 2.15 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 4th mark after the 0 g mark. What mass does the scale show?

(1)

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11 Ahmed buys a drink costing 85p. He pays with a £2 coin. How much change should he receive?

(1)

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12 Connor uses a set of bathroom scales. The dial is numbered every 10 kg, with 4 equally spaced unlabelled small divisions between each pair of numbered marks. The needle points to the 3rd small division after the 60 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 Measurement, Money and Time Depth: 30-minute Pack

Question 1

(a) 09:12 cao **B1**

(a) Answer: 09:12

(b) Identifies the next departure after 09:05 as 09:30 **M1**

(b) 25 minutes cao **A1**

(b) Answer: 25 minutes

Question 2

Converts 2 hours 30 minutes to 2.5 hours (oe) **M1**

45 km cao **A1**

Answer: 45 km

Question 3

5000 / 750 (oe, converts litres to ml) **M1**

6 cao **A1**

Answer: 6 bottles

Question 4

(a) Converts 650 g to 0.65 kg (oe) **M1**

(a) £3.12 cao **A1**

(a) Answer: £3.12

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

(b) £1.88 cao (ft) **A1**

(b) Answer: £1.88

Question 5

B cao **B1**

Answer: B) 750 g

Question 6

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

(a) 1 hour for the Newcastle to Durham leg **B1**

(a) Answer: Home to Newcastle: 30 minutes; Newcastle to Durham: 1 hour

(b) Average speed = total distance / total time, ft (e.g. (25 + 65) / 1.5) **M1**

(b) 60 km/h cao **A1**

(b) Answer: 60 km/h

(c) Adds the total journey time to 12:15, ft (e.g. 12:15 + 1:30 = 13:45) **M1**

(c) Yes, with correct reason ft (13:45 is before 14:00, so he arrives with 15 minutes to spare) **A1**

(c) Answer: Yes; he arrives at 13:45, which is 15 minutes before 14:00.

Question 7

(a) 08:13 cao **B1**

(a) Answer: 08:13

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

(b) Correct reason: the coach now arrives at 08:13, which is 3 minutes after the train has already departed at 08:10 **B1**

(b) Answer: No; the coach now arrives at 08:13, 3 minutes after the train has already left at 08:10.

(c) Finds the original train's journey time is 08:52 - 08:10 = 42 minutes **M1**

(c) 09:27 cao **A1**

(c) Answer: 09:27

Question 8

(a) 375 / 25 (oe) **M1**

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

(a) Answer: 15 litres per minute

(b) 540 / 15 (oe, using their rate ft from part a) **M1**

(b) 36 minutes cao **A1**

(b) Answer: 36 minutes

Question 9

(a) 3.8 litres cao **B1**

(a) Answer: 3.8 litres

(b) 2150 ml cao **B1**

(b) Answer: 2150 ml

Question 10

400 g cao **B1**

Answer: 400 g

Question 11

£1.15 cao (accept 115p) **B1**

Answer: £1.15

Question 12

(a) 2 kg cao **B1**

(a) Answer: 2 kg

(b) 66 kg cao **B1**

(b) Answer: 66 kg

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