2.10 Measures and Units: 10-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A recipe for 8 flapjacks uses 350 g of oats.

(a) Priya wants to make 20 flapjacks. Calculate how many grams of oats she needs. **(2)**

.....

(b) Oats cost £2.40 per kilogram. Calculate the cost of the 875 g of oats Priya needs. **(2)**

.....

2 Aisha drives from Bristol to Bath, a distance of 20 km, at an average speed of 40 km/h. She then drives from Bath to Chippenham, a distance of 45 km, at an average speed of 60 km/h.

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

.....

(b) Calculate the total time for the whole journey, in hours. **(1)**

.....

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

.....

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3 Convert each of these time measurements.

(a) Convert 2 and 3/4 hours into minutes. **(1)**

(b) Convert 150 seconds into minutes and seconds. **(1)**

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Mark scheme · 2.10 Measures and Units: 10-minute Pack

Question 1

(a) Finds the scale factor 20 / 8 = 2.5, or an equivalent correct method **M1**

(a) 875 g cao **A1**

(a) Answer: 875 g

(b) Converts 875 g to 0.875 kg and multiplies by 2.40 (oe, ft from part a) **M1**

(b) £2.10 cao **A1**

(b) Answer: £2.10

Question 2

(a) 30 minutes for Bristol to Bath **B1**

(a) 45 minutes for Bath to Chippenham **B1**

(a) Answer: Bristol to Bath: 30 minutes; Bath to Chippenham: 45 minutes

(b) Adds the two times correctly, ft from part a (e.g. 30 + 45 = 75 minutes) **M1**

(b) Answer: 1.25 hours (1 hour 15 minutes)

(c) Average speed = total distance / total time, ft (e.g. (20 + 45) / 1.25) **M1**

(c) 52 km/h cao **A1**

(c) Answer: 52 km/h

Question 3

(a) 165 minutes oe **B1**

(a) Answer: 165 minutes

(b) 2 minutes 30 seconds oe (accept 2.5 minutes) **B1**

(b) Answer: 2 minutes 30 seconds

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