2.21 Worded Problems Set A: 10-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Amara buys a notebook for £2.35 and a pencil case for £1.20. She pays with a £5 note. How much change does she get?

- ☐ A) £1.35
- ☐ B) £1.45
- ☐ C) £1.55
- ☐ D) £2.65
- ☐ E) £3.80

2 A pancake recipe for 4 people needs 200 g of flour. Sanjay is cooking pancakes for 10 people. How much flour does he need, in grams?

(2)

3 Grace scored 6, 8, 7 and 9 marks out of 10 in four spelling tests. What must she score in her fifth test so that her mean score across all five tests is 8?

- ☐ A) 8
- ☐ B) 9
- ☐ C) 10
- ☐ D) 11
- ☐ E) 12

4 Divya is 3 times as old as her brother Callum. In 4 years' time, Divya will be 25. How old is Callum now?

(2)

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5 Yasmin is comparing two bottles of juice in a shop: a 750 ml bottle for £1.80, and a 1.2 litre bottle for £2.64. Which bottle offers better value for money, and what is its price per 100 ml?

- ☐ A) 750 ml bottle at 20p per 100 ml
- ☐ B) 750 ml bottle at 24p per 100 ml
- ☐ C) 1.2 litre bottle at 22p per 100 ml
- ☐ D) 1.2 litre bottle at 24p per 100 ml
- ☐ E) Both are the same value, at 22p per 100 ml

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6 A recipe needs 1.25 kg of flour. Osei has three bags of flour, each weighing 400 g. Does he have enough flour, and by how many grams is he short or over?

(2)

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Mark scheme · 2.21 Worded Problems Set A: 10-minute Pack

Question 1

B) £1.45, from £5.00 - £3.55 **B1**

Answer: B) £1.45

Question 2

finds flour per person = 200 / 4 = 50 g **M1**

500 g **A1**

Answer: 500 g

Question 3

target total = 8 x 5 = 40; current total = 6 + 8 + 7 + 9 = 30 **M1**

C) 10 (40 - 30) **A1**

Answer: C) 10

Question 4

finds Divya's current age = 25 - 4 = 21 **M1**

7 years old **A1**

Answer: 7 years old

Question 5

finds both unit prices: 750 ml = 24p per 100 ml, 1.2 litre = 22p per 100 ml **M1**

C) 1.2 litre bottle at 22p per 100 ml **A1**

Answer: C) 1.2 litre bottle at 22p per 100 ml

Question 6

total flour available = 3 x 400 = 1200 g, and 1.25 kg converted to 1250 g **M1**

50 g short (not enough), with a correct conclusion **A1**

Answer: No, he is 50 g short (he has 1200 g but needs 1250 g).

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