2.81 Scaling Recipes and Quantities by Ratio: 10-minute Pack

Total Marks

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

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A recipe for rice pudding serves 8 people and uses 400 ml of milk. Megan wants to make it for 21 people. How much milk is needed?

- ☐ A) 1,049 ml
- ☐ B) 8,400 ml
- ☐ C) 50 ml
- ☐ D) 413 ml
- ☐ E) 1,050 ml

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2 A cake recipe serves 4 people and uses 240 g plain flour. The baker wants to make the cake for 10 people. Work out how much plain flour the baker should use.

(2)

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3 A catering company uses a recipe for 25 portions that requires 2 kg chicken, 1.5 kg rice and 400 g spice mix. They need to prepare 160 portions for an event.

(a) What is the scale factor from 25 to 160 portions? **(1)**

(b) How much chicken is required for 160 portions? **(2)**

.....

(c) How much rice is required for 160 portions? **(2)**

.....

(d) How much spice mix is required for 160 portions, in grams? **(1)**

.....

(e) If the spice mix is sold in 250 g jars, how many jars should they buy? **(2)**

.....

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Mark scheme · 2.81 Scaling Recipes and Quantities by Ratio: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

correct option E (1,050 ml) cao; scale factor 21/8 applied to the amount	**B1**

Answer: E) 1,050 ml

Question 2

240 x (10/4) or equivalent method shown	**M1**
600 g plain flour cao	**A1**

Answer: 600 g

Question 3

(a) 6.4 cao (160/25 = 6.4)	**B1**

(a) Answer: 6.4

(b) method: 2 x 6.4 or equivalent	**M1**
(b) 12.8 kg cao	**A1**

(b) Answer: 12.8 kg

(c) method: 1.5 x 6.4 or equivalent	**M1**
(c) 9.6 kg cao	**A1**

(c) Answer: 9.6 kg

(d) 2,560 g cao (400 g x 6.4 = 2560 g)	**B1**

(d) Answer: 2,560 g

(e) method: 2560 / 250 seen or equivalent	**M1**
(e) 11 jars cao (2560/250 = 10.24 so round up to 11)	**A1**

(e) Answer: 11 jars

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