2.6 Ratio and Proportion: 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 Amy and Ben share 40 sweets in the ratio 3 : 5. Calculate how many sweets each person receives.

(2)

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2 There are 30 pupils in a class. The ratio of boys to girls is 2 : 3. Calculate the number of girls in the class.

(2)

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3 A fruit drink is made from cordial and water in the ratio 2 : 7. Calculate how much water is needed for 50 ml of cordial.

(2)

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4 A recipe for 4 people needs 300 g of flour, 150 g of sugar and 2 eggs. Rewrite the recipe for 10 people.

(a) Calculate the mass of flour needed for 10 people. **(1)**

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(b) Calculate the mass of sugar needed for 10 people. **(1)**

.....

(c) Calculate the number of eggs needed for 10 people. **(1)**

.....

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5 It takes 4 builders working at the same constant rate 6 hours to build a wall. Calculate how long it would take 8 builders, working at the same rate, to build an identical wall.

(3)

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Mark scheme · 2.6 Ratio and Proportion: 10-minute Pack

Question 1

total parts found (3 + 5 = 8) and 40/8 = 5 used, or equivalent method **M1**

Amy = 15 and Ben = 25 cao **A1**

Answer: Amy = 15 sweets, Ben = 25 sweets

Question 2

total parts found (2 + 3 = 5) and 30/5 = 6 used, or equivalent method **M1**

18 cao **A1**

Answer: 18

Question 3

scale factor found: 50/2 = 25, or equivalent method **M1**

175 ml cao **A1**

Answer: 175 ml

Question 4

(a) 750 g cao **B1**

(a) Answer: 750 g

(b) 375 g cao **B1**

(b) Answer: 375 g

(c) 5 eggs cao **B1**

(c) Answer: 5 eggs

Question 5

total worker-hours found: 4 x 6 = 24 **M1**

dep: their 24 / 8 **M1**

3 hours cao **A1**

Answer: 3 hours

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