2.36 Ratio and Proportion Depth: 10-minute Pack

GL ASSESSMENT EP.M40 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Which of these ratios is equivalent to 5 : 6?

- ☐ A) 10 : 11
- ☐ B) 15 : 18
- ☐ C) 20 : 25
- ☐ D) 25 : 36

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2 9 identical rulers cost £5.85 in total. Calculate the cost of 4 of these rulers.

(2)

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3 Ravi, Ethan and Harry share 119 football cards in the ratio 6:4:7. How many more does the person with the largest share get than the person with the smallest?

- ☐ A) 3
- ☐ B) 21
- ☐ C) 49
- ☐ D) 28
- ☐ E) 22

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4 Sienna, Arjun and Dylan share 119 shells in the ratio 6:7:4. How many does Arjun get?

- ☐ A) 28
- ☐ B) 48
- ☐ C) 49
- ☐ D) 70
- ☐ E) 42

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5 Noah, Lily and Fatima share 50 sweets in the ratio 1:5:4. How many does Lily get?

- ☐ A) 20
- ☐ B) 5
- ☐ C) 24
- ☐ D) 26
- ☐ E) 25

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6 Grace, Kofi and Zainab share 154 pencils in the ratio 2:5:7. How many more does the person with the largest share get than the person with the smallest?

- ☐ A) 56
- ☐ B) 77
- ☐ C) 22
- ☐ D) 5
- ☐ E) 55

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7 Isla, Fatima and Ewan share 144 plants in the ratio 1:6:5. How many does Fatima get?

- ☐ A) 73
- ☐ B) 12
- ☐ C) 72
- ☐ D) 60
- ☐ E) 48

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8 Two numbers are in the ratio 5 : 8. Their difference is 39. Calculate the sum of the two numbers.

(3)

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Mark scheme · 2.36 Ratio and Proportion Depth: 10-minute Pack

Question 1

B (15:18) cao **B1**

Answer: B) 15 : 18

Question 2

cost of 1 ruler found: 5.85/9 = 0.65 **M1**

£2.60 cao **A1**

Answer: £2.60

Question 3

correct option B (21) cao; 119 / 17 = 7 per part **B1**

Answer: B) 21

Question 4

correct option C (49) cao; 119 / 17 = 7 per part **B1**

Answer: C) 49

Question 5

correct option E (25) cao; 50 / 10 = 5 per part **B1**

Answer: E) 25

Question 6

correct option E (55) cao; 154 / 14 = 11 per part **B1**

Answer: E) 55

Question 7

correct option C (72) cao; 144 / 12 = 12 per part **B1**

Answer: C) 72

Question 8

difference in parts found (8 - 5 = 3) and unit value found: 39/3 = 13 **M1**

dep: the two numbers found (5 x 13 = 65, 8 x 13 = 104) **M1**

169 cao **A1**

Answer: 169

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