# 2.6-4 Ratio and Proportion: Practice Set 4: 10-minute Pack

GL ASSESSMENT EP.M67 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** Simplify the ratio 36 : 54 to its simplest form.

- ☐ A) 2 : 3
- ☐ B) 4 : 6
- ☐ C) 6 : 9
- ☐ D) 3 : 4

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**2** A biscuit tin contains 20 chocolate biscuits and 12 plain biscuits. Write the ratio of chocolate biscuits to plain biscuits in its simplest form.

**(1)**

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**3** Complete the missing number: 4 : 7 = 24 : ___

**(1)**

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**4** Which of these ratios is NOT equivalent to 6 : 11?

- ☐ A) 12 : 22
- ☐ B) 18 : 33
- ☐ C) 24 : 44
- ☐ D) 30 : 56


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**5** y is directly proportional to x. When x = 9, y = 24. Calculate the value of y when x = 15.

**(2)**

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**6** Shop G sells a 900 g jar of coffee for £8.10. Shop H sells a 1.5 kg jar of the same coffee for £12.75. Work out which shop offers better value for money, showing your working.

**(3)**

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**7** At a chess club, the ratio of adult members to junior members is 7 : 4. There are 21 more adult members than junior members. Calculate the total number of members in the club.

**(3)**


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# Mark scheme · 2.6-4 Ratio and Proportion: Practice Set 4: 10-minute Pack

## Question 1

A (2 : 3) cao **B1**

**Answer: A) 2 : 3**

## Question 2

5 : 3 oe cao **B1**

**Answer: 5 : 3**

## Question 3

42 cao **B1**

**Answer: 42**

## Question 4

D (30:56) cao **B1**

**Answer: D) 30 : 56**

## Question 5

scale factor found: 15/9 = 5/3, or constant of proportionality k = 24/9, or equivalent method **M1**

40 cao **A1**

**Answer: 40**

## Question 6

price per 100 g at Shop G found: (8.10/900) x 100 = 0.90 **M1**

price per 100 g at Shop H found: (12.75/1500) x 100 = 0.85 **M1**

Shop H offers better value cao (£0.85 per 100 g versus £0.90 per 100 g at Shop G) **A1**

**Answer: Shop H (£0.85 per 100 g versus £0.90 per 100 g at Shop G)**

## Question 7

difference in parts found (7 - 4 = 3) and unit value found (21/3 = 7) **M1**

dep: total parts found (7 + 4 = 11) and their 7 x 11 **M1**

77 cao **A1**

**Answer: 77**


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