

**UNIT 7**    *Ratio and Proportion***Revision Test 7.1**  
(Standard)

1. Write each of the following ratios in its simplest form:  
(a) 5 : 15                      (b) 6 : 14                      (c) 3 : 12  
(6 marks)
  
2. Write in the form of 1 :  $n$ , each of the following ratios:  
(a) 2 : 10                      (b) 2 : 5                      (c) 10 : 22  
(6 marks)
  
3. Given that one pound sterling (£) is worth 200 Japanese Yen (Y), convert:  
(a) £60 to Y,  
(b) £2.50 to Y,  
(c) 1600 Y to £ .  
(6 marks)
  
4. Share £99 in the ratio 4 : 7.  
(4 marks)
  
5. If 7 books cost £35, calculate the cost of:  
(a) 1 book,  
(b) 4 books,  
(c) 20 books.  
(6 marks)
  
6. Sugar and flour are mixed in the ratio 1 : 3 in a recipe.  
How much sugar should be mixed with 900 grams of flour?  
(2 marks)

**UNIT 7**    *Ratio and Proportion***Revision Test 7.2**  
(Academic)

1. Write each of the following ratios in its simplest form:  
(a) 21 : 35                      (b) 42 : 49                      (c) 24 : 40  
(6 marks)
2. Write in the form of 1 :  $n$ , each of the following ratios:  
(a) 10 : 45                      (b) 5 : 8                      (c) 2 : 17  
(6 marks)
3. Given that one pound sterling (£) is worth 240 Spanish Pesetas (Pta), convert:  
(a) £8 to Pta,  
(b) £3.50 to Pta,  
(c) 2640 Pta to £.  
(6 marks)
4. Share £90 in the ratio 7 : 6 : 5.  
(4 marks)
5. If 9 hockey sticks cost £126, calculate the cost of:  
(a) 1 stick,  
(b) 7 sticks.  
(4 marks)
6. If Debbie drives 150 miles at 60 mph, how long does her journey take?  
(2 marks)
7. A map uses a scale of 1 : 20 000. What distance on the map would represent an actual distance of 2 km?  
(2 marks)

**UNIT 7**    *Ratio and Proportion***Revision Test 7.3**  
(Express)

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1. Write each of the following ratios in its simplest form:  
(a) 42 : 49                                      (b) 60 : 150                                      (c) 45 : 63  
(6 marks)
  
  2. Write in the form of 1 :  $n$ , each of the following ratios:  
(a) 10 : 4.7                                      (b) 5 : 22  
(4 marks)
  
  3. Given that one pound sterling (£) is worth 2.4 Swiss Francs (SFr), convert:  
(a) £40 to SFr,  
(b) 480 SFr to £,  
(c) 4.2 SFr to £ .  
(6 marks)
  
  4. Share £198 in the ratio 3 : 6 : 9.  
(4 marks)
  
  5. If 12 footballs cost £168, calculate the cost of:  
(a) 4 footballs,  
(b) 9 footballs  
(4 marks)
  
  6. Debbie and Karen each drive 60 miles. Debbie drives at 40 mph and Karen at 50 mph. How long does each journey take?  
(4 marks)
  
  7. A map uses a scale of 1 : 25 000. What distance on the map would represent an actual distance of 4.5 km?  
(2 marks)

## Revision Test 7.1 (Standard)

## Answers

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- |        |                                     |       |           |
|--------|-------------------------------------|-------|-----------|
| 1. (a) | $1 : 3$                             | B2    |           |
| (b)    | $3 : 7$                             | B2    |           |
| (c)    | $1 : 4$                             | B2    | (6 marks) |
|        |                                     |       |           |
| 2. (a) | $1 : 5$                             | B2    |           |
| (b)    | $1 : 2.5$                           | B2    |           |
| (c)    | $1 : 2.2$                           | B2    | (6 marks) |
|        |                                     |       |           |
| 3. (a) | $60 \times 200 = 12\,000 \text{ Y}$ | M1 A1 |           |
| (b)    | $2.5 \times 200 = 500 \text{ Y}$    | M1 A1 |           |
| (c)    | $1600 \div 200 = \text{£}8$         | M1 A1 | (6 marks) |
|        |                                     |       |           |
| 4.     | $4 + 7 = 11$                        | M1    |           |
|        | $99 \div 11 = 9$                    | M1    |           |
|        | $4 \times 9 = \text{£}36$           | B1    |           |
|        | $7 \times 9 = \text{£}63$           | B1    | (4 marks) |
|        |                                     |       |           |
| 5. (a) | $35 \div 7 = \text{£}5$             | M1 A1 |           |
| (b)    | $4 \times 5 = \text{£}20$           | M1 A1 |           |
| (c)    | $20 \times 5 = \text{£}100$         | M1 A1 | (6 marks) |
|        |                                     |       |           |
| 6.     | $900 \div 3 = 300 \text{ grams}$    | M1 A1 | (2 marks) |

**(TOTAL MARKS 30)**

## Revision Test 7.2 (Academic)

## Answers

- |        |  |       |           |
|--------|--|-------|-----------|
| 1. (a) | $3 : 5$  | B2    |           |
| (b)    | $6 : 7$  | B2    |           |
| (c)    | $3 : 5$  | B2    | (6 marks) |
|        |  |       |           |
| 2. (a) | $1 : 4.5$  | B2    |           |
| (b)    | $1 : 1.6$  | B2    |           |
| (c)    | $1 : 8.5$  | B2    | (6 marks) |
|        |  |       |           |
| 3. (a) | $8 \times 240 = 1920$ Pta  | M1 A1 |           |
| (b)    | $3.5 \times 240 = 840$ Pta   | M1 A1 |           |
| (c)    | $2640 \div 240 = \text{£}11$   | M1 A1 | (6 marks) |
|        |  |       |           |
| 4.     | $7 + 6 + 5 = 18$   | M1    |           |
|        | $90 \div 18 = 5$   | A1    |           |
|        | $\left. \begin{array}{l} 7 \times 5 = \text{£}35 \\ 6 \times 5 = \text{£}30 \\ 5 \times 5 = \text{£}25 \end{array} \right\}$ | M1 A1 | (4 marks) |
|        |  |       |           |
| 5. (a) | $126 \div 9 = \text{£}14$  | M1 A1 |           |
| (b)    | $7 \times 14 = \text{£}98$   | M1 A1 | (4 marks) |
|        |  |       |           |
| 6.     | $\frac{150}{60} = 2\frac{1}{2}$ hours  | M1 A1 | (2 marks) |
|        |  |       |           |
| 7.     | $\frac{2000 \times 100}{20000} = 10$ cm  | M1 A1 | (2 marks) |

**(TOTAL MARKS 30)**

## Revision Test 7.3 (Express)

## Answers

- |   |       |           |
|---|-------|-----------|
| 1. (a) $6 : 7$  | B2    |           |
| (b) $2 : 5$   | B2    |           |
| (c) $5 : 7$   | B2    | (6 marks) |
|   |       |           |
| 2. (a) $1 : 0.47$   | B2    |           |
| (b) $1 : 4.4$   | B2    | (4 marks) |
|   |       |           |
| 3. (a) $40 \times 2.4 = 96 \text{ SFr}$   | M1 A1 |           |
| (b) $480 \div 2.4 = \text{£}200$  | M1 A1 |           |
| (c) $4.2 \div 2.4 = \text{£}1.75$   | M1 A1 | (6 marks) |
|   |       |           |
| 4. $4 + 6 + 9 = 18$   | M1    |           |
| $198 \div 18 = 11$  | A1    |           |
| $\left. \begin{array}{l} 3 \times 11 = 33 \\ 6 \times 11 = 66 \\ 9 \times 11 = 99 \end{array} \right\}$ | M1 A1 | (4 marks) |
|   |       |           |
| 5. (a) $\frac{168}{12} \times 4 = \text{£}56$   | M1 A1 |           |
| (b) $\frac{168}{12} \times 9 = \text{£}126$   | M1 A1 | (4 marks) |
|   |       |           |
| 6. $\frac{60}{40} = 1\frac{1}{2}$ hours   | M1 A1 |           |
| $\frac{60}{50} = 1\frac{1}{5}$ hours  | M1 A1 | (4 marks) |
|   |       |           |
| 7. $\frac{4500 \times 100}{25000} = \frac{450}{25} = 18 \text{ cm}$                                     | M1 A1 | (2 marks) |

**(TOTAL MARKS 30)**