

The Maths And Science Tutor

Practice Worksheet

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The Maths and Science Tutor

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GCSE (9–1) Mathematics Practice Paper

Foundation Tier Mark Scheme

Topic: Proportion

General Marking Guidance

- All candidates must receive the same treatment
- Mark schemes should be applied positively
- All marks on the mark scheme are designed to be awarded
- Method marks (M) are awarded for a correct method or partial method
- Accuracy marks (A) are awarded for a correct answer following correct working

Question 1

(a) 300g

M1 for method (eg. $200 \div 4 \times 6$ or equivalent)

A1 for correct answer

(b) 500g

M1 for method (eg. $200 \div 4 \times 10$ or equivalent)

A1 for correct answer

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Question 2

(a) 97.75 euros

M1 for method (eg. 85×1.15)

A1 for correct answer

(b) £200

M1 for method (eg. $230 \div 1.15$)

A1 for correct answer

Question 3

8 litres

M1 for finding total parts ($2 + 7 = 9$)

M1 for method ($36 \div 9 \times 2$)

A1 for correct answer

Question 4

4 days

M1 for recognising inverse proportion

M1 for method ($8 \times 6 \div 12$)

A1 for correct answer

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Question 5

15 girls

M1 for finding total parts ($5 + 3 = 8$)

M1 for method ($40 \div 8 \times 3$)

A1 for correct answer

Question 6

(a) 225 calories

M1 for method ($90 \div 100 \times 250$)

A1 for correct answer

(b) 400g

M1 for method ($360 \div 90 \times 100$)

A1 for correct answer

Question 7

1500 metres

M1 for converting scale ($1\text{cm} = 250\text{m}$)

M1 for method (6×250)

A1 for correct answer

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Question 8

200ml

M1 for method ($300 \div 3 \times 2$)

A1 for correct answer

Question 9

(a) 12cm

M1 for method (8×1.5)

A1 for correct answer

(b) 12cm

M1 for method ($18 \div 1.5$)

A1 for correct answer

Question 10

£68

M1 for method (80×0.85 or $80 - (80 \times 0.15)$)

A1 for correct answer

Mark scheme produced by The Maths and Science Tutor

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