

The Maths And Science Tutor

Practice Worksheet

Date: 07 December 2024

The Maths and Science Tutor

Contact: admin@themathsandsciencetutor.co.uk | Tel: 07760257814

P75160A0124

GCSE (9–1) Mathematics Practice Paper

Foundation Tier

Topic: Proportion

You must have:

Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

Instructions:

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.

Information:

- The total mark for this paper is 30
- The marks for each question are shown in brackets

1 A recipe for 4 people requires 200g of rice.

(a) Work out how much rice is needed for 6 people.

(b) Work out how much rice is needed for 10 people. (2)

(2)

2 £1 = 1.15 euros

(a) Work out how many euros you can get for £85

.....

(b) Hannah has 230 euros to change into pounds (£).
Work out how many pounds she will get.

.....

(2)

3 To make pink paint, red and white paint are mixed in the ratio 2:7
How much red paint is needed to make 36 litres of pink paint?

.....

(2)

4 6 workers can complete a job in 8 days.
How many days would it take 12 workers to complete the same job?

.....

(3)

(3)

5 In a group of students, the ratio of boys to girls is 5:3
There are 40 students in total.
Work out how many girls are in the group.

6 100g of bananas contain 90 calories. (3)

(a) How many calories are in 250g of bananas?

(b) How many grams of bananas contain 360 calories? (2)

7 A map has a scale of 1:25000 (2)
The distance between two points on the map is 6 centimetres.
Work out the actual distance in metres.

(3)

8 James mixes orange juice and lemonade in the ratio 3:2
He uses 300ml of orange juice.
How much lemonade does he use?

9 A photo is enlarged by scale factor 1.5

(2)

(a) The width of the original photo is 8cm.
Work out the width of the enlarged photo.

(b) The height of the enlarged photo is 18cm.
Work out the height of the original photo.

(2)

10 In a sale, all prices are reduced by 15%
Work out the sale price of a coat that originally cost £80

(2)

Practice paper produced by The Maths and Science Tutor

(2)

Email: admin@themathsandsciencetutor.co.uk | Tel: 07760257814

themathsandsciencetutor.co.uk Tel: 07760257814

Page