

Name: _____

GCSE Maths

Ratio

Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided there may - be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise - indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets use - this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1. Alex and Thomas share 30 sweets.
They divide them in the ratio 3:2.
How many sweets does Thomas have?

(Total 3 marks)

2. Sophie has 60 pencils.
The ratio of sharpened pencils to blunt pencils is 4:1
How many sharpened pencils does Sophie have?

(Total 3 marks)

3. The number of people who voted for the Green Party in an election was 1500.

The number of people who voted for the Blue Party was 9000.

Write the ratio of Green Party voters to Blue Party voters in its simplest form.

(Total 3 marks)

4. A piece of carpet is 240cm long.

Mr Jones cuts it into three pieces in the ratio 1 : 2 : 5

Work out the length of the longest piece of carpet.

(Total 3 marks)

5. There are between 30 and 40 sweets in a bag.

Ben and Daisy share the sweets in the ratio 4: 5

There are no sweets remaining in the bag.

How many sweets were in the bag to begin with?

(Total 5 marks)

6. George buys some first class and second class stamps to put on some letters.

Each first class stamp costs 67p

Each second class stamp costs 58p

The ratio of first class stamps to second class stamps that he buys is 1:4

George bought 20 stamps.

How much did the stamps cost George?

(Total 5 marks)

7. 1,936 people visit a library during on week.

The ratio children: adults is 1: 4

How many more adults than children visited the library?

(Total 3 marks)

8. Isaac and Victoria share money in the ratio 2:5 Victoria receives £6.60

Work out the difference between how much money Isaac and

Victoria receive.

(Total 3 marks)

9. Charlotte and Melissa booked theatre ticket costing £180.
They have a voucher that entitles them to 20% off the total price.
Charlotte and Melissa share the total cost of the tickets in the ratio 5:7.
Work out how much more Melissa pays than Charlotte.

(Total 3 marks)

10. Barnaby has 288 counters in a bag.
The counters are red, yellow and white.
 $\frac{3}{8}$ of the counters are red.
The order counters are yellow and white in the ratio 1:4

(Total 3 marks)