



Name _____

Date _____

GCSE Mathematics

F/H

Ratio and Fractions

Grades 5-6

Total Marks	Time	Questions
52	52 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions**Q1** 

Grade 5

Edexcel style

The ratio of boys to girls in a class is 3:5. What fraction of the class are girls?

Answer

teachably

[2 marks]**Q2** 

Grade 5

Edexcel style

The ratio of cats to dogs is 2:7. What fraction of the number of dogs is the number of cats?

Answer

teachably

[1 mark]**Q3** 

Grade 5

Edexcel style

In a bag of sweets, $\frac{2}{5}$ are red and the rest are blue. Write the ratio of red to blue sweets in its simplest form.

Answer

teachably

[3 marks]

Q4

Grade 6

Edexcel style

The ratio of red to blue counters in a bag is 3:5. There are 12 red counters. $\frac{1}{3}$ of the red counters are removed. Find the new ratio of red to blue counters.

Answer _____

teachably

[4 marks]**Q5**

Grade 6

Edexcel style

In a school, the ratio of teachers to students is 1:18. $\frac{2}{3}$ of the students are girls. If there are 15 teachers, how many girls are there?

Answer _____

teachably

[3 marks]

AQA-style questions**Q6** 

Grade 5

AQA style

The ratio of red to blue counters in a bag is 2:7. What fraction of the counters are red?

Answer

teachably

[2 marks]**Q7** 

Grade 5

AQA style

The ratio of pens to pencils is 5:3. What fraction of the number of pencils is the number of pens?

Answer

teachably

[1 mark]**Q8** 

Grade 5

AQA style

On a farm, $\frac{3}{8}$ of the animals are sheep and the rest are cows. Write the ratio of sheep to cows in its simplest form.

Answer

teachably

[3 marks]

Q9

Grade 6

AQA style

The ratio of pens to pencils in a box is 4:7. There are 16 pens. $\frac{1}{4}$ of the pens are removed. Find the new ratio of pens to pencils.

Answer

teachably

[4 marks]**Q10**

Grade 6

AQA style

In a company, the ratio of managers to staff is 1:12. $\frac{3}{4}$ of the staff work full-time. If there are 8 managers, how many staff work full-time?

Answer

teachably

[3 marks]

OCR-style questions**Q11** 

Grade 5

OCR style

The ratio of cats to dogs at a shelter is 4:5. What fraction of the animals are dogs?

Answer

teachably

[2 marks]**Q12** 

Grade 5

OCR style

The ratio of adults to children on a bus is 4:9. What fraction of the number of children is the number of adults?

Answer

teachably

[1 mark]**Q13** 

Grade 5

OCR style

In a survey, $\frac{5}{12}$ of people preferred tea and the rest preferred coffee. Write the ratio of tea to coffee drinkers in its simplest form.

Answer

teachably

[3 marks]

Q14

Grade 6

OCR style

The ratio of sheep to cows on a farm is 5:8. There are 20 sheep. $\frac{2}{5}$ of the sheep are sold. Find the new ratio of sheep to cows.

Answer

teachably

[4 marks]**Q15**

Grade 6

OCR style

At a concert, the ratio of adults to children is 1:5. $\frac{3}{8}$ of the children are under 10. If there are 24 adults, how many children are under 10?

Answer

teachably

[3 marks]

Teachably-style questions**Q16** 

Grade 5

Teachably style

The ratio of apples to oranges in a bowl is 3:4. What fraction of the fruit are apples?

Answer

teachably

[2 marks]**Q17** 

Grade 5

Teachably style

The ratio of red to green apples is 7:2. What fraction of the number of green apples is the number of red apples?

Answer

teachably

[1 mark]**Q18** 

Grade 5

Teachably style

In a garden, $\frac{3}{10}$ of the flowers are roses and the rest are tulips. Write the ratio of roses to tulips in its simplest form.

Answer

teachably

[3 marks]

Q19

Grade 6

Teachably style

The ratio of roses to tulips in a garden is 2:9. There are 18 roses. $\frac{1}{3}$ of the roses die. Find the new ratio of roses to tulips.

Answer _____

teachably

[4 marks]

Q20

Grade 6

Teachably style

In a library, the ratio of fiction to non-fiction books is 1:14. There are 6 fiction books. $\frac{5}{7}$ of the non-fiction books are about science. How many non-fiction books are about science?

Answer _____

teachably

[3 marks]

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