

GCSE Mathematics

H

Algebraic Fractions

Higher | Grades 7-9

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 7

Edexcel style

Simplify $\frac{x^2 - 9}{x + 3}$.

Answer

teachably

[2 marks]**Q2** 

Grade 7

Edexcel style

Simplify $(\frac{x}{3}) \times (6 \div x^2)$.

Answer

teachably

[2 marks]**Q3** 

Grade 8

Edexcel style

Simplify $(\frac{x}{4}) \div (\frac{x^2}{8})$.

Answer

teachably

[2 marks]

Q4

Grade 8

Edexcel style

Write $\frac{3}{x} + \frac{2}{x+1}$ as a single fraction.

Answer

teachably

[3 marks]**Q5**

Grade 9

Edexcel style

Solve $\frac{1}{x} + \frac{4}{x+3} = 1$.

Answer

teachably

[4 marks]

AQA-style questions**Q6** 

Grade 7

AQA style

Simplify $\frac{x^2 - 16}{x - 4}$.

Answer

teachably

[2 marks]**Q7** 

Grade 7

AQA style

Simplify $(\frac{2x}{5}) \times (10 \div x^2)$.

Answer

teachably

[2 marks]**Q8** 

Grade 8

AQA style

Simplify $(\frac{3x}{5}) \div (\frac{9x^2}{10})$.

Answer

teachably

[2 marks]

Q9

Grade 8

AQA style

Write $\frac{4}{x} - \frac{1}{x+2}$ as a single fraction.

Answer

teachably

[3 marks]**Q10**

Grade 9

AQA style

Solve $\frac{2}{x} + \frac{3}{x+2} = 1$.

Answer

teachably

[4 marks]

OCR-style questions**Q11** 

Grade 7

OCR style

Simplify $\frac{x^2 + 5x}{x + 5}$.

Answer

teachably

[2 marks]**Q12** 

Grade 7

OCR style

Simplify $(\frac{3}{x}) \times (\frac{x^2}{9})$.

Answer

teachably

[2 marks]**Q13** 

Grade 8

OCR style

Simplify $(\frac{x^2}{6}) \div (\frac{x}{12})$.

Answer

teachably

[2 marks]

Q14

Grade 8

OCR style

Write $\frac{2}{x-1} + \frac{3}{x}$ as a single fraction.

Answer

teachably

[3 marks]**Q15**

Grade 9

OCR style

Solve $\frac{1}{x} + \frac{3}{x+4} = 1$.

Answer

teachably

[4 marks]

Teachably-style questions**Q16** 

Grade 7

Teachably style

Simplify $\frac{2x^2 - 8x}{x - 4}$.

Answer

teachably

[2 marks]**Q17** 

Grade 7

Teachably style

Simplify $(\frac{4x}{7}) \times (14 \div x^2)$.

Answer

teachably

[2 marks]**Q18** 

Grade 8

Teachably style

Simplify $(\frac{5x}{8}) \div (\frac{15x^2}{4})$.

Answer

teachably

[2 marks]

Q19

Grade 8

Teachably style

Write $\frac{5}{x+3} - \frac{2}{x}$ as a single fraction.

Answer

teachably

[3 marks]**Q20**

Grade 9

Teachably style

Solve $\frac{1}{x} + \frac{6}{x+6} = 1$.

Answer

teachably

[4 marks]**END OF PAPER****Want help from an expert maths tutor?**

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