

Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Algebraic Fractions 3

Calculator Allowed

INSTRUCTIONS TO CANDIDATES

- Write your name in the space provided.
- Write your answers in the spaces provided in this question paper.
- Answer ALL questions.
- Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.
- You should have a ruler, compass and protractor where required.

Total Marks :

1) Solve the equation $\frac{3x-5}{2} = 2$

Answer.....

(2 marks)

2) Solve $\frac{3n+12}{3} + 5n - 3 = 19$

Answer.....

(2 marks)

3) Solve the equation:

$$\frac{x+1}{3} = \frac{1+2x}{4}$$

Answer.....

(3 marks)

4) Solve the equation: $\frac{3x-2}{2} = \frac{4(1+x)}{3}$

Answer.....

(3 marks)

5) a) Solve the equation: $\frac{3x+2}{3} = \frac{2(x+1)}{4}$

Answer.....

(3 marks)

(b) Express as a single fraction:

$$\frac{x}{3} + \frac{2x-1}{6}$$

Answer.....

(3 marks)

6) Solve

$$\frac{x}{x+2} = \frac{2x-3}{x+6}$$

Answer.....

(3 marks)

7) Solve for x : $\frac{2x-1}{6} + \frac{3x}{4} = \frac{x+2}{12}$

Answer.....

(3 marks)

8) Solve the equation: $\frac{x+1}{2} + \frac{3x-1}{4} = 4$

Answer.....

(4 marks)

9) Solve the equation $\frac{(x-2)}{4} + \frac{x}{3} = 3$.

Answer.....

(4 marks)

10) Solve the equation

$$\frac{5x + 2}{3} - \frac{3x + 1}{4} = x$$

Answer.....

(4 marks)

11) Solve the equation: $\frac{x+2}{3} - \frac{2x-1}{5} = 1$

Answer.....

(4 marks)

12) Solve the equation: $\frac{y+3}{4} - \frac{2y-3}{3} = 3$

Answer.....

(4 marks)

13) Solve the equation $\frac{x}{2} = 1 + \frac{3}{2x}$.

Answer.....

(4 marks)

14) Write as a single fraction $\frac{3}{x-2} - \frac{4x}{x+1}$

Answer.....

(4 marks)

15) Solve the equation: $\frac{5}{2x+1} + \frac{6}{x+1} = 3$

Answer.....

(4 marks)

16) Solve the equation $\frac{5}{y-2} + \frac{3}{y+4} = 2$.

Answer.....

(5 marks)

17) Solve the equation $\frac{y+8}{y+2} = \frac{y+6}{y+3}$.

Answer.....

(5 marks)

18) Solve the equation $\frac{x+12}{x+4} = \frac{x+4}{x+2}$.

Answer.....

(5 marks)