



EXAM PAPERS PRACTICE

GCSE OCR Math J560

Algebraic fraction

Question Paper

*"We will help you to
achieve A Star "*



Question 1

Simplify $\frac{3(x+1)}{(x+1)^2}$

[1 mark]

Question 2

Show that $\frac{a}{b+1} - \frac{a}{(b+1)^2}$ can be written as $\frac{ab}{(b+1)^2}$

[2 marks]



Question 3

(a) Simplify fully $\frac{x^2 + 3x - 4}{2x^2 - 5x + 3}$

[3 marks]

Question 4

Simplify $\frac{x+1}{2} + \frac{x+3}{3}$

[3 marks]

Question 5

(b) Write $\frac{4}{x+2} + \frac{3}{x-2}$ as a single fraction in its simplest form.

[3 marks]

Question 6

Simplify $\frac{4(x+5)}{x^2 + 2x - 15}$

[2 marks]



Question 7

Simplify $\frac{x^2 - 9}{2x^2 + 5x - 3}$

[3 marks]

Question 8

Write as a single fraction in its simplest form

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

[3 marks]

Question 9

Simplify fully $\frac{2x^2 - 5x + 3}{x^2 + 5x - 6}$

[3 marks]



Question 10

Write as a single fraction in its simplest form $\frac{5}{2-x} - \frac{4}{x}$

[3 marks]

Question 11

Simplify $\frac{x^2 - 16}{2x^2 - 5x - 12}$

[3 marks]

Question 12

$2 - \frac{x+2}{x-3} - \frac{x-6}{x+3}$ can be written as a single fraction in the form $\frac{ax+b}{x^2-9}$ where a and b are integers.

Work out the value of a and the value of b .

[4 marks]



Question 13

Simplify fully $\frac{3x^2 - 8x - 3}{2x^2 - 6x}$

[3 marks]

Question 14

Show that $\frac{2x^2 - 3x - 5}{x^2 + 6x + 5}$ can be written in the form $\frac{ax + b}{cx + d}$ where a, b, c and d are integers.

[3 marks]