

# Algebraic Fractions

## Difficulty: Easy

### Question Paper 2

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Algebra and graphs
Sub-Topic	Algebraic Fractions
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 2

**Time allowed:** 45 minutes

**Score:** /35

**Percentage:** /100

#### Grade Boundaries:

##### CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

##### CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

## Question 1

Write as a single fraction in its simplest form.

$$\frac{x+3}{x-3} - \frac{x-1}{x+1} \quad [4]$$

## Question 2

Write the following as a single fraction in its simplest form.

$$\frac{x+2}{3} - \frac{2x-1}{4} + 1 \quad [3]$$

### Question 3

Simplify the following.

$$\frac{h^2 - h - 20}{h^2 - 25} \quad [4]$$

### Question 4

Simplify fully.

$$\frac{x^2 - x - 20}{x^3 - 10x^2 + 25x} \quad [5]$$

## Question 5

Write as a single fraction in its simplest form.

$$\frac{3}{x+10} - \frac{1}{x+4} \quad [3]$$

## Question 6

Write the following as a single fraction in its simplest form.

$$\frac{x+1}{x+5} - \frac{x}{x+1} \quad [4]$$

## Question 7

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

Give your answer in its simplest form.

[3]

## Question 8

Write as a single fraction in its simplest form.

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

[2]

## Question 9

Simplify this fraction.

$$\frac{x^2 - 5x + 6}{x^2 - 4} \quad [4]$$

## Question 10

Write as a single fraction, in its simplest form.

$$\frac{3}{x+2} - \frac{2}{x-1} \quad [3]$$