

# Working with Fractions

## Difficulty: Hard

### Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Number
Sub-Topic	Working with Fractions
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

**Time allowed:** 36 minutes

**Score:** /28

**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

**Without using a calculator**, work out  $1\frac{2}{3} - \frac{11}{15}$ .

Write down all the steps of your working and give your answer as a fraction in its lowest terms. [3]

## Question 2

(a) Write  $\frac{11}{3}$  as a mixed number. [1]

(b) **Without using a calculator**, work out  $\frac{1}{4} + \frac{5}{12}$ .  
Show all the steps of your working and give your answer as a fraction in its lowest terms. [2]

### Question 3

**Without using a calculator**, work out  $1\frac{2}{3} + \frac{5}{7}$ .

[3]

Write down all the steps of your working and give your answer as a mixed number in its simplest form.

## Question 4

Without using your calculator, work out  $\frac{11}{12} - \left(\frac{3}{4} - \frac{2}{3}\right)$ .

[4]

You must show all your working and give your answer as a fraction in its simplest form.

## Question 5

**Without using your calculator**, work out  $3\frac{1}{3} \div 2\frac{1}{2}$ .

You must show all your working and give your answer as a mixed number in its simplest form. [3]

## Question 6

**Without using a calculator**, work out  $\frac{6}{7} \div 1\frac{2}{3}$ .

Show all your working and give your answer as a fraction in its lowest terms. [3]

### Question 7

Without using a calculator, show that  $\left(\frac{49}{16}\right)^{-\frac{3}{2}} = \frac{64}{343}$ .

[2]

Write down all the steps in your working.

### Question 8

Write  $\frac{1}{c} + \frac{1}{d} - \frac{c-d}{cd}$  as a single fraction in its simplest form.

[3]

### Question 9

Work out the value of  $1 + \frac{2}{3 + \frac{4}{5+6}}$ . [2]

### Question 10

$\frac{4c}{5} - \frac{3c}{35} = \frac{10}{7}$ . Find  $c$ . [2]