

# Fractions, Decimals & Percentages

## Question Paper

Course	Edexcel IGCSE Maths
Section	1. Numbers & the Number System
Topic	Fractions, Decimals & Percentages
Difficulty	Easy

**Time allowed:** 40  
**Score:** /32  
**Percentage:** /100

### Question 1

Mr Mason asks 240 Year 11 students what they want to do next year.

15% of the students want to go to college.

$\frac{3}{4}$  of the students want to stay at school.

The rest of the students do not know.

Work out the number of students who do not know.

[4 marks]

### Question 2

Sasha takes a music exam.

The table shows the result that Sasha can get for different percentages in her music exam.

Percentage	Result
50% - 69%	Pass
70% - 84%	Merit
85% - 100%	Distinction

Sasha gets 62 out of 80 in her music exam.

What result does Sasha get?

You must show your working.

[2 marks]

### Question 3

Karen got 32 out of 80 in a maths test.

She got 38% in an English test.

Karen wants to know if she got a higher percentage in maths or in English.

Did Karen get a higher percentage in maths or in English?

[2 marks]

### Question 4

Celina and Zoe both sing in a band.

One evening the band plays for 80 minutes.

Celina sings for 65% of the 80 minutes.

Zoe sings for  $\frac{5}{8}$  of the 80 minutes.

Celina sings for more minutes than Zoe sings.

Work out for how many more minutes.

You must show all your working.

[4 marks]

### Question 5

Prove algebraically that the recurring decimal  $0.2\dot{5}$  has the value  $\frac{23}{90}$

[2 marks]

**Question 6**

Show that the recurring decimal  $0.1\dot{7} = \frac{8}{45}$

[2 marks]

**Question 7**

Use algebra to show that the recurring decimal  $0.3\dot{8} = \frac{7}{18}$

[2 marks]

**Question 8**

Use algebra to show that the recurring decimal  $0.2\dot{6} = \frac{4}{15}$

[2 marks]

**Question 9**

Use algebra to show that  $4.\dot{5}\dot{7} = 4\frac{19}{33}$

[2 marks]

**Question 10**

120 children go on an activity holiday.

The ratio of the number of girls to the number of boys is 3: 5.

On Sunday, all the children either go sailing or go climbing.

$\frac{16}{25}$  of the boys go climbing.

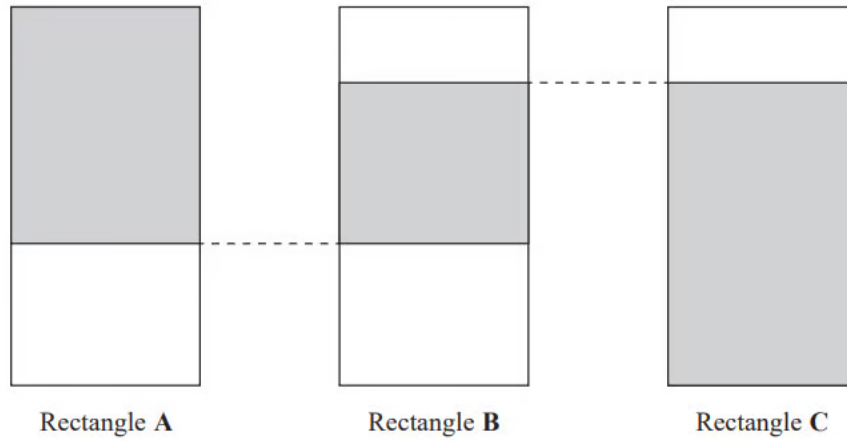
Twice as many girls go sailing as go climbing.

Work out how many children go sailing on Sunday.

**[6 marks]**

### Question 11

The diagram shows three identical rectangles.



$\frac{5}{8}$  of rectangle **A** is shaded.

80% of rectangle **C** is shaded.

What fraction of rectangle **B** is shaded?

[3 marks]

### Question 12

Circle the largest number.

0. $\dot{5}$

0.55

0.545

0.5 $\dot{4}\dot{5}$

[1 mark]