

Name

Class



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Fractions, decimals and percentages

(9 – 1) Topic booklet

Foundation

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- If the question is a **1F** question you are not allowed to use a calculator.
- If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

Information

- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

1 Write 35% as a decimal.



November 2024 – Paper 3F

(Total for Question 1 is 1 mark)

1 Write 23% as a fraction.



June 2023 – Paper 3F

(Total for Question 1 is 1 mark)

1 Write 38% as a decimal.

June 2023 – Paper 1F

(Total for Question 1 is 1 mark)

1 Write 0.3 as a fraction.

November 2022 – 1F

(Total for Question 1 is 1 mark)

1 Write 35% as a fraction.



June 2022 – Paper 3F

(Total for Question 1 is 1 mark)

1 Write $\frac{3}{10}$ as a percentage.

..... %

November 2021 – Paper 1F

(Total for Question 1 is 1 mark)

1 Write 31% as a fraction.



November 2021 – Paper 2F

(Total for Question 1 is 1 mark)

1 Write 45% as a decimal.



November 2021 – Paper 3F

(Total for Question 1 is 1 mark)

1 Write $\frac{4}{50}$ as a percentage.



.....%

May 2018 – Paper 2F

(Total for Question 1 is 1 mark)

1 Write $\frac{9}{10}$ as a decimal.



May 2018 – Paper 3F

(Total for Question 1 is 1 mark)

1 Write 0.37 as a fraction.



May 2020 – Paper 2F

(Total for Question 1 is 1 mark)

1 Write 0.75 as a fraction.



June 2019 – Paper 2F

(Total for Question 1 is 1 mark)

1 Write $\frac{7}{100}$ as a decimal.



November 2017 – Paper 2F

(Total for Question 1 is 1 mark)

2 Write 0.7 as a fraction.



June 2023 – Paper 2F

(Total for Question 2 is 1 mark)

2 Write 37% as a fraction.



November 2022 – 2F

(Total for Question 2 is 1 mark)

2 Write 0.73 as a percentage.

..... %

June 2019 – Paper 1F

(Total for Question 2 is 1 mark)

2 Write 0.6 as a percentage.

..... %

November 2018 – Paper 1F

(Total for Question 2 is 1 mark)

2 Write 0.9 as a fraction.



.....

November 2023 – Paper 2F

(Total for Question 2 is 1 mark)

2 Write 0.3 as a percentage.

..... %

May 2024 – Paper 1F

(Total for Question 2 is 1 mark)

2 Write 0.3 as a percentage.



..... %

May 2018 – Paper 3F

(Total for Question 2 is 1 mark)

2 Write 0.19 as a fraction.



.....

Specimen 2 – Paper 3F

(Total for Question 2 is 1 mark)

2 Write 0.037 as a fraction.

.....

Sample 1 – Paper 1F

(Total for Question 2 is 1 mark)

3 Write $\frac{31}{100}$ as a decimal.

May 2024 – Paper 1F

(Total for Question 3 is 1 mark)

3 Write $\frac{4}{5}$ as a decimal.



November 2022 – 3F

(Total for Question 3 is 1 mark)

3 Write $\frac{9}{100}$ as a decimal.

November 2021 – Paper 1F

(Total for Question 3 is 1 mark)

3 Write 40% as a fraction.



May 2020 – Paper 3F

(Total for Question 3 is 1 mark)

3 Write 0.23 as a percentage.



..... %

November 2019 – Paper 2F

(Total for Question 3 is 1 mark)

3 Write 0.7 as a fraction.



November 2019 – Paper 3F

(Total for Question 3 is 1 mark)

2 Write 3% as a fraction.



November 2018 – Paper 3F

(Total for Question 2 is 1 mark)

2 Write $\frac{7}{16}$ as a decimal.



Sample 1 – Paper 2F

(Total for Question 2 is 1 mark)

3 Write 20% as a fraction.

May 2018 – Paper 1F

(Total for Question 3 is 1 mark)

3 Write 0.21 as a fraction.



Specimen 1 – Paper 2F

(Total for Question 3 is 1 mark)

3 Write 0.075 as a fraction.
Give your fraction in its simplest form.



Specimen 2 – Paper 2F

(Total for Question 3 is 2 marks)

4 Write $\frac{1}{4}$ as a percentage.



.....%

May 2020 – Paper 2F

(Total for Question 4 is 1 mark)

4 Write $\frac{3}{4}$ as a decimal.

.....

May 2020 – Paper 1F

(Total for Question 4 is 1 mark)

4 Write $\frac{4}{5}$ as a percentage.

.....%

June 2017 – Paper 1F

(Total for Question 4 is 1 mark)

4 Write 0.9 as a percentage.

.....%

Specimen 1 – Paper 1F

(Total for Question 4 is 1 mark)

5 Write 0.4 as a percentage.



.....%

June 2022 – Paper 2F

(Total for Question 5 is 1 mark)

5 Write 15% as a decimal.

November 2019 – Paper 1F

(Total for Question 5 is 1 mark)



5 Write 19% as a fraction.

June 2019 – Paper 3F

(Total for Question 5 is 1 mark)



5 Write 0.31 as a fraction.

November 2018 – Paper 2F

(Total for Question 5 is 1 mark)



5 Write $\frac{3}{5}$ as a percentage.

%

Specimen 2 – Paper 3F

(Total for Question 5 is 1 mark)

5 Write these numbers in order of size.
Start with the smallest number.

$$\frac{1}{2}$$

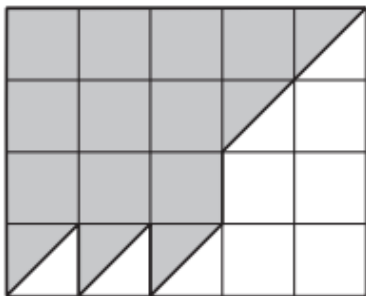
0.55

45%

June 2022 – Paper 1F

(Total for Question 5 is 1 mark)

9 What percentage of this shape is shaded?



..... %

Specimen 1 – Paper 2F (Total for Question 9 is 3 marks)

14 Here are two fractions.

$\frac{7}{5}$

$\frac{5}{7}$

Work out which of the fractions is closer to 1
You must show all your working.

November 2017 – Paper 1F (Total for Question 14 is 3 marks)