

Name

ANSWERS

Class



**MATHS TEACHER HUB**

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# Ordering numbers

(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.

**Answer ALL questions**  
**Write your answers in the space provided.**  
**You must write down all the stages in your working.**

- 1 Write the following numbers in order.  
Start with the lowest number.



4      -3      7      2      -1

-3, -1, 2, 4, 7

May 2024 – Paper 2F

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.  
Start with the smallest number.



-7      7      0      -2      -1

-7, -2, -1, 0, 7,

November 2022 – 2F

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.  
Start with the smallest number.



0.41      0.5      0.46      0.408

0.408, 0.41, 0.46, 0.5

November 2022 – 3F

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.  
Start with the smallest number.

0.32      0.4      0.35      0.309

0.309, 0.32, 0.35, 0.4

May 2020 – Paper 1F

(Total for Question 1 is 1 mark)

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

8    -4    1    -7    -2



-7, -4, -2, 1, 8

November 2019 – Paper 2F

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.  
Start with the smallest number.

0.4    0.02    0.37    0.152    0.2

0.02, 0.152, 0.2, 0.37, 0.4

November 2018 – Paper 1F

(Total for Question 1 is 1 mark)

- 1 Write the following numbers in order of size.  
Start with the smallest number.

0.61    0.1    0.16    0.106

0.1, 0.106, 0.16, 0.61

Sample 1 – Paper 1F

(Total for Question 1 is 1 mark)

- 2 Write the following numbers in order of size.  
Start with the smallest number.

8      -7      -10      1      0      -2

-10, -7, -2, 0, 1, 8

November 2021 – Paper 1F

(Total for Question 2 is 1 mark)

- 2 Write the following numbers in order of size.  
Start with the smallest number.



-3      4      0      -1      2

-3, -1, 0, 2, 4,

June 2019 – Paper 2F

(Total for Question 2 is 1 mark)

- 2 (a) Write the following numbers in order of size.  
Start with the smallest number.

-6      6      -5      0      12

-6, -5, 0, 6, 12,

(1)

- (b) Write the following numbers in order of size.  
Start with the smallest number.

0.078      0.78      0.87      0.708

0.078, 0.708, 0.78, 0.87

(1)

May 2018 – Paper 1F

(Total for Question 2 is 2 marks)



- 2 Write these temperatures in order.  
Start with the lowest temperature.



$7^{\circ}\text{C}$        $-2^{\circ}\text{C}$        $10^{\circ}\text{C}$        $-5^{\circ}\text{C}$        $3^{\circ}\text{C}$

$-5^{\circ}\text{C}, -2^{\circ}\text{C}, 3^{\circ}\text{C}, 7^{\circ}\text{C}, 10^{\circ}\text{C}$

Specimen 2 – Paper 2F

(Total for Question 2 is 1 mark)

- 3 Here is a list of numbers.

1.6      1.4      2.1      0.5      1.3

From the list, write down the smallest number.

0.5

June 2023 – Paper 1F

(Total for Question 3 is 1 mark)

- 3 Write the following numbers in order of size.  
Start with the smallest number.



1.02      0.12      1.20      0.21

0.12, 0.21, 1.02, 1.20

November 2021 – Paper 2F

(Total for Question 3 is 1 mark)

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

0.21      0.2      0.03      0.1      0.16

0.03, 0.1, 0.16, 0.2, 0.21

May 2024 – Paper 1F

(Total for Question 4 is 1 mark)

4 Here are four fractions.

$$\frac{2}{5}$$

$$\frac{11}{30}$$

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

$$\frac{7}{15}$$



Write these fractions in order of size.  
Start with the smallest fraction.

$$\frac{12}{30}$$

$$\frac{11}{30}$$

$$\frac{15}{30}$$

$$\frac{14}{30}$$

$$\frac{11}{30}, \frac{2}{5}, \frac{7}{15}, \frac{1}{2}$$

June 2017 – Paper 2F

(Total for Question 4 is 2 marks)

5                      7           -5           3           9           -2

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



$$-5, -2, 3, 7, 9,$$

June 2023 – Paper 3F

(Total for Question 5 is 1 mark)

5 Write the following fractions in order of size.  
Start with the smallest fraction.

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

$$\frac{2}{3}$$

$$\frac{1}{4}$$

$$50\%$$

$$66\frac{2}{3}\%$$

$$25\%$$



$$\frac{1}{4}, \frac{1}{2}, \frac{2}{3}$$

June 2024 – 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%  
50%      55%      45%

45%,  $\frac{1}{2}$ , 0.55

June 2022 – Paper 1F

(Total for Question 5 is 1 mark)

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



1      -4      0      7      -6      -3      2

-6, -4, -3, 0, 1, 2, 7,

May 2020 – Paper 3F

(Total for Question 5 is 1 mark)

- 6 Write the following numbers in order of size.  
Start with the smallest number.



-11      -2      8      -7      3      10

-11, -7, -2, 3, 8, 10

June 2022 – Paper 2F

(Total for Question 6 is 1 mark)

6 Here are four fractions.



$$\frac{3}{4}$$

75%

$$\frac{5}{7}$$

71%

$$\frac{19}{25}$$

76%

$$\frac{11}{15}$$

73%

Write the fractions in order of size.  
Start with the smallest fraction.

$$\frac{5}{7}, \frac{11}{15}, \frac{3}{4}, \frac{19}{25}$$

November 2018 – Paper 2F

(Total for Question 6 is 2 marks)

8 Write the following fractions in order of size.  
Start with the smallest fraction.

$$\frac{1}{3}$$

$$\frac{3}{4}$$

$$\frac{1}{4}$$

$$\frac{7}{12}$$

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

$$\frac{4}{12}$$

$$\frac{9}{12}$$

$$\frac{3}{12}$$

$$\frac{7}{12}$$

$$\frac{6}{12}$$

$$\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{7}{12}, \frac{3}{4}$$

June 2019 – Paper 1F

(Total for Question 8 is 2 marks)



8 Here are four fractions.

$$\frac{1}{2} \quad \frac{17}{24} \quad \frac{3}{4} \quad \frac{5}{12}$$

50%      70%      75%      41%

Write these fractions in order of size.  
Start with the smallest fraction.

$$\frac{5}{12}, \frac{1}{2}, \frac{17}{24}, \frac{3}{4}$$

Specimen 1 – Paper 2F

(Total for Question 8 is 2 marks)

10 Here are four numbers.

$$0.43 \quad \frac{3}{7} \quad 43.8\% \quad \frac{7}{16}$$

43%      42%      43.8%      43.7%

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

$$\frac{3}{7}, 0.43, \frac{7}{16}, 43.8\%$$

Sample 1 – Paper 3F

(Total for Question 10 is 2 marks)

- 14 Write the following numbers in order of size.  
Start with the smallest number.



$\frac{7}{12}$	0.56	57%	$\frac{6}{11}$	0.558
58.3%	56%	57%	54%	55.8%

$\frac{6}{11}, 0.558, 0.56, 57\%, \frac{7}{12}$

November 2023 – Paper 3F

(Total for Question 14 is 2 marks)

- 15 Write the following fractions in order of size.  
Start with the smallest fraction.

$\frac{5}{8}$	$\frac{2}{3}$	$\frac{4}{9}$	$\frac{3}{5}$
0.625	0.66	0.44	0.6

$8 \overline{) 5.8000}$ 
 $9 \overline{) 4.400}$

$\frac{4}{9}, \frac{3}{5}, \frac{5}{8}, \frac{2}{3}$

November 2021 – Paper 1F

(Total for Question 15 is 2 marks)