

Name

ANSWERS

Class



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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°C -2°C 10°C -5°C 3°C



-5°C, -2°C, 3°C, 7°C, 10°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.

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

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

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

$$50\%$$

$$66\cdot6\%$$

$$25\%$$



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

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.

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

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

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

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

75%

71%

76%

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.

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

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.

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

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.

$$\frac{5}{8}$$

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

$$\frac{4}{9}$$

$$\frac{3}{5}$$

$$0.625 \quad 0.66 \quad 0.44 \quad 0.6$$

$$\begin{array}{r} 0.625 \\ 8 \overline{)5.00}^{\text{40}} \end{array}$$

$$\begin{array}{r} 0.44 \\ 9 \overline{)4.00}^{\text{00}} \end{array}$$

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

November 2021 – Paper 1F

(Total for Question 15 is 2 marks)