Name: SOLUTIONS

GCSE (1 - 9)

Ordering Fractions, Decimals & Percentages

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They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
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Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2021, Paper 2F, Q3
2	Edexcel, GCSE, Autumn 2021, Paper 2F, Q15
3	Edexcel, GCSE, Autumn 2020, Paper 1F, Q1
4	Edexcel, GCSE, Summer 2019, Paper 1F, Q8
5	Edexcel, GCSE, Autumn 2018, Paper 1F, Q1
6	Edexcel, GCSE, Autumn 2018, Paper 2F, Q6
7	Edexcel, GCSE, Summer 2018, Paper 1F, Q2
8	Edexcel, GCSE, Summer 2018, Paper 1F, Q14
9	Edexcel, GCSE, Autumn 2017, Paper 1F, Q14
10	Edexcel, GCSE, Summer 2017, Paper 2F, Q4
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Ordering Fractions, Decimals and Percentages (Past Paper Questions)

1

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

(Total for Question 3 is 1 mark)

[Edexcel, GCSE, Autumn 2021, Paper 2F, Q3]

2

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

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

$5/8 = 0.625$

$2/3 = 0.666\dot{}$

$4/9 = 0.444\dot{}$

$3/5 = 0.600$

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

(Total for Question 15 is 2 marks)

[Edexcel, GCSE, Autumn 2021, Paper 2F, Q15]

3

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

0.320 0.400 0.350 0.309

0.309 , 0.32 , 0.35 , 0.4

(Total for Question 1 is 1 mark)

[Edexcel, GCSE, Autumn 2020, Paper 1F, Q1]

4

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

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

$\frac{4}{12}$ $\frac{9}{12}$ $\frac{3}{12}$ $\frac{7}{12}$ $\frac{6}{12}$

$\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{7}{12}$, $\frac{9}{12}$

(Total for Question 8 is 2 marks)

[Edexcel, GCSE, Summer 2019, Paper 1F, Q8]

5

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

(Total for Question 1 is 1 mark)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q1]

6

Here are four fractions.

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

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

$3/4 = 0.75$

$5/7 = 0.71...$

$19/25 = 0.76$

$11/15 = 0.7\dot{3}$

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

(Total for Question 6 is 2 marks)

[Edexcel, GCSE, Autumn 2018, Paper 2F, Q6]

7

(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 0.780 0.870 0.708

0.078 , 0.708 , 0.78 , 0.87

(1)

(Total for Question 2 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 1F, Q2]

8

Gavin, Harry and Isabel each earn the same monthly salary.

Each month,

Gavin **saves** 28% of his salary and spends the rest of his salary

Harry spends $\frac{3}{4}$ of his salary and **saves** the rest of his salary

the amount of salary Isabel saves : the amount of salary she spends = 3 : 7

Work out who saves the most of their salary each month.
You must show how you get your answer.

Gavin = 28%

Harry = 25% (Saves 1/4) Spends 3/4

Isabel = 30% (Saves 3/10) 3:7

Isabel saves the most (30%)

(Total for Question 14 is 4 marks)

[Edexcel, GCSE, Summer 2018, Paper 1F, Q14]

11

(a) Work out $\frac{5}{8}$ of 132

$132 \div 8 = 16.5$

$16.5 \times 5 = 82.5$

82.5

(2)

(b) Write the following fractions in order of size.
Start with the smallest fraction.

$\frac{3}{8}$ $\frac{9}{32}$ $\frac{1}{4}$ $\frac{21}{64}$

8 x 3 = 24 → $\frac{24}{64}$

9 x 2 = 18 → $\frac{18}{64}$

1 x 16 = 16 → $\frac{16}{64}$

$\frac{21}{64}$

$\frac{1}{4}$ $\frac{9}{32}$ $\frac{21}{64}$ $\frac{3}{8}$

(2)

(Total for Question 12 is 4 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q12]

12

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

0.410 0.500 0.460 0.408

0.408, 0.41, 0.46, 0.5

(Total for Question 1 is 1 mark)

[Edexcel, GCSE, November 2022, Paper 2F, Q1]

13

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

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

0·5 0·55 0·45

45% ½ 0·55

(Total for Question 5 is 1 mark)

[Edexcel, GCSE, Summer 2022, Paper 1F, Q5]