

Edexcel GCSE

Mathematics (Linear) – 1MA0

ORDERING FRACTIONS, DECIMALS & PERCENTAGES

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers

Nil

**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.

Calculators may be used.

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.

Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

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. $\frac{5}{8}$ $\frac{1}{2}$ $\frac{3}{4}$

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

$$\begin{array}{ccc} \frac{5}{8} & \frac{1}{2} & \frac{3}{4} \\ 0.625 & 0.5 & 0.75 \end{array}$$

$$\frac{1}{2}, \frac{5}{8}, \frac{3}{4}$$

(Total 2 marks)

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

(i) 75, 56, 37, 9, 59

$$9, 37, 56, 59, 75$$

(ii) 0.56, 0.067, 0.6, 0.65, 0.605

$$0.067, 0.56, 0.6, 0.605, 0.65$$

(iii) 5, -6, -10, 2, -4

$$-10, -6, -4, 2, 5$$

(iv) $\frac{1}{2}$, $\frac{2}{3}$, $\frac{2}{5}$, $\frac{3}{4}$

$$\frac{2}{5}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$$

(Total 5 marks)

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

(i) 0.56, 0.067, 0.6, 0.65, 0.605

0.067, 0.56, 0.6, 0.605, 0.65

(ii) 5, -6, -10, 2, -4

-10, -6, -4, 2, 5

(iii) $\frac{1}{2}$, $\frac{2}{3}$, $\frac{2}{5}$, $\frac{3}{4}$

$\frac{2}{5}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$

(Total 4 marks)

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

$\frac{9}{16}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{5}{8}$

$\frac{9}{16}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{5}{8}$
0.5625 0.75 0.5 0.625

$\frac{1}{2}$ $\frac{9}{16}$ $\frac{5}{8}$ $\frac{3}{4}$

(Total 2 marks)

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

$$0.82 \quad \frac{4}{5} \quad 85\% \quad \frac{2}{3} \quad \frac{7}{8}$$

$$0.8 \quad 0.85 \quad 0.\dot{6} \quad 0.875$$

$$\frac{2}{3}, \frac{4}{5}, 0.82, 85\%, \frac{7}{8}$$

(2)

(Total 2 marks)

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

(a) 76, 103, 13, 130, 67

$$13, 67, 76, 103, 130$$

(1)

(b) -3, 5, 0, -7, -1

$$-7, -3, -1, 0, 5$$

(1)

(c) 70%, $\frac{3}{4}$, 0.6, $\frac{2}{3}$

$$0.75 \quad 0.\dot{6}$$

$$0.6, \frac{2}{3}, 70\%, \frac{3}{4}$$

(2)

(Total 4 marks)

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

$$0.4 \quad \frac{7}{15} \quad 35\% \quad \frac{3}{7}$$

0.35
 $0.4\dot{6}$ $0.\dot{4}2857\dot{1}$

35% , 0.4 , $\frac{3}{7}$, $\frac{7}{15}$

(2)

(Total 3 marks)

8. Here are six numbers

$$75\% \quad \left(\frac{8}{10}\right) \quad \frac{9}{12} \quad 0.75 \quad \left(66\frac{2}{3}\%\right) \quad \frac{6}{8}$$

Two of the numbers are **not** equal to $\frac{3}{4}$

Draw a circle around each of the two numbers.

(Total 2 marks)