

Ordering Numbers

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1(a) Write numbers in increasing order starting with the smallest.

(Level 3)

1.101, 0.11, 1.10, 0.01

[1 mark]

Answer _____

1(b) Write numbers in decreasing order starting with the largest.

1.045, 1.445, 4.115, 5.411, 0.1445

[1 mark]

Answer _____

1(c) Write numbers in increasing order starting with the smallest.

10010, 11010, 10001, 11100, 11011

[1 mark]

Answer _____

Turn over for next question

2(a) Which of the following is correctly sequenced from smallest to largest? *(Level 3)*

[1 mark]

0, 0.1, 0.02, 0.003 -4.3, -4.3, 2.8, 5

$\frac{6}{7}$, 0.7, 0.9, $\frac{10}{7}$ $\frac{7}{8}$, $\frac{11}{12}$, $\frac{16}{17}$, $\frac{18}{19}$

2(b) Which of the following can complete the sequence showing largest to smallest ?

Circle the correct answer.

$\frac{3}{4}$, 0.3, -1.8, , $-\frac{8}{3}$

[1 mark]

$-\frac{3}{2}$

$-\frac{9}{4}$

$-2\frac{5}{6}$

-1.09

2(c) Circle the greatest decimal from the options below?

[1 mark]

6.9

-7.8999

8.065

8.059



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3 Write these fractions in order of size, starting with the largest. (Level 3)

You **must** show your working.

$$\frac{3}{8}, \quad \frac{2}{3}, \quad \frac{5}{6}, \quad \frac{3}{12}$$

[1 mark]

Answer _____

4 Write the following numbers in order, starting with the smallest, given that x is a positive integer greater than 2. (Level 3)

$$3x, \quad 2x, \quad \frac{1}{x}, \quad x$$

[1 mark]

Answer _____



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5 Here are six numbers:

(Level 3)

$$0.67, \quad \frac{4}{5}, \quad \frac{1}{2}, \quad \frac{7}{7}, \quad 0.81, \quad \frac{2}{3}$$

5(a) Three of them are greater than $\frac{3}{4}$, which numbers are they.

[1 mark]

Answer _____

5(b) Which of these is the smallest number?

[1 mark]

Answer _____



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6 Here are six numbers:

(Level 3)

42%, $\frac{3}{6}$, $\frac{3}{9}$, -1.27, 0.55, $\frac{2}{10}$

6(a) Order the numbers from least to most.

[1 mark]

Answer _____

6(b) Find a new number that would become the second largest number in the list above.

[1 mark]

Answer _____

6(c) The number 0.3 is added to the list of numbers
What would be the position of 0.3 in the list?

[1 mark]

Answer _____

End of questions