

8300

GCSE MATHEMATICS

Foundation and Higher tier – Questions by Topic

Number

Understanding and ordering decimals

v1.0

Name _____

Materials

For this paper you must have:

- Mathematical instruments

Information

- The marks for questions are shown in brackets

Advice

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

Questions 1 to 6 are **foundation** tier only

For questions 1 to 6 you must **NOT** use a calculator.



Q1.

(a) Write 3.574 to 1 decimal place.

(1)

(b) Put these decimals in order, starting with the smallest.

0.5 0.62 0.325

(1)

(c) Circle the **two** values that are equivalent to 0.8

8% $\frac{4}{5}$ 80% $\frac{8}{100}$ $\frac{1}{8}$

(2)

(Total 4 marks)

Q2.

Write these numbers in order, starting with the smallest.

7.1 7.11 7.01

(Total 1 mark)

Q3.

Write these numbers in order starting with the smallest.

2.303 2.3 2.33 2.03

(Total 1 mark)

Q4.

(a) Put these in order starting with the smallest.

33.3 $\frac{1}{3}$ -0.3 3.03

(2)

(b) Jo thinks the difference between -0.3 and 33.3 is 33.

Is she correct?

Tick a box.

☐

Yes

☐

No

Show clearly how you decide.

(2)

(Total 4 marks)

Q5.

Write these numbers in order of size.

Start with the **smallest** number.

2 1.8 -1 0

Answer _____ , _____ , _____ , _____

(Total 2 marks)

Q6.

Circle the largest number.

4.5061 4.5 4.516 4.56

(Total 1 mark)

Questions 7 to 11 are **higher** tier only

For question 7 you must **NOT** use a calculator.



Q7.

(a) Circle the smallest number.

2.31 2. $\dot{3}$ 2.33 2.301

(1)

(b) Circle the largest number.

7.1 7. $\dot{1}$ 7.11 7.101

(1)

(Total 2 marks)

For the rest of the questions, you may use a calculator.



Q8.

Circle the largest number.

5.30 $\dot{4}$ 5.344 5.34 5.3 $\dot{4}$

(Total 1 mark)

Q9.

Circle the smallest number.

4.31 4. $\dot{3}$ 4.301 4.33

(Total 1 mark)

Q10.

Circle the largest number.

0. $\dot{5}$ 0.55 0.545 0.5 $\dot{4}\dot{5}$

(Total 1 mark)

Q11.

Circle the largest number.

3. $\dot{2}\dot{7}$ 3.27 3.277 3.20 $\dot{7}$

(Total 1 mark)