

8300

GCSE MATHEMATICS

Foundation tier – Questions by Topic

Number

Rounding 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

For questions 1 to 2 you must **NOT** use a calculator.



Q1.

Here is a list of four numbers.

6.92 7.27 7.18 7.14

Use **one** number from the list to complete each statement.

The number closest in value to 7 is _____

The number that rounds to 7.2 to 1 decimal place is _____

(Total 2 marks)

Q2.

(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)

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



Q3.

$\frac{15}{32}$

Work out $\frac{15}{32}$ as a decimal.

Give your answer to 2 decimal places.

(Total 2 marks)

Q4.

(a) Use your calculator to work out $\sqrt{701}$ as a decimal.
Write down your full calculator display.

(1)

(b) Give your answer to part (a) to 1 decimal place.

(1)

(Total 2 marks)

Q5.

Round 2.84 to 1 decimal place.

(Total 1 mark)

Q6.

What is 6.2819 to 2 decimal places?

Circle your answer.

6.2

6.28

6.29

6.3

(Total 1 mark)

Q7.

(a) Convert $\frac{47}{8}$ to a mixed number.

(1)

(b) Convert $\frac{61}{128}$ to a decimal.
Give your answer to 2 decimal places.

(2)

(Total 3 marks)

Q8.

Use your calculator to change $\frac{27}{64}$ to a decimal.

(a) Write down your full calculator display.

(1)

(b) Give your answer to part (a) to 3 decimal places.

(1)

(Total 2 marks)

Q9.

Use your calculator to work out $\frac{3.21 + 4.89}{5.62 - 1.89}$ as a decimal.

(a) Write down your full calculator display.

(1)

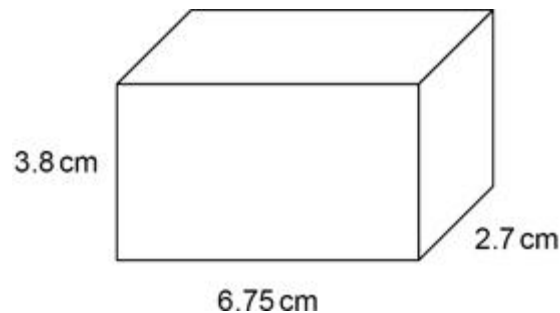
(b) Write your answer to 1 decimal place.

(1)

(Total 2 marks)

Q10.

Here is a cuboid.



Work out the volume of the cuboid.

Give your answer to 1 decimal place.

(Total 2 marks)

Q11.

Sam spends exactly £20 on petrol.
The petrol costs £1.45 per litre.
Work out the number of litres of petrol she buys.
Give your answer to 1 decimal place.

(Total 3 marks)

Q12.

Sam spends exactly £40 on petrol.
The petrol costs £1.75 per litre.
Work out the number of litres of petrol she buys.
Give your answer to 1 decimal place.

(Total 3 marks)