

Rounding to significant figures

Grade 4 | Foundation and Higher | 12 questions, 33 marks

GCSE Maths topic practice



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Name: _____ **Date:** _____ **Score:** _____ / 33

- 1** Work out an estimate for the value of

$$\frac{48.7 \times 6.12}{0.216}$$

You must round each number to 1 significant figure.

(3 marks)

Answer _____

- 2** a. Round 58 420 to 1 significant figure.

b. Round 0.0386 to 1 significant figure.

c. Round 7.46 to 1 significant figure.

(3 marks)

Answer _____

- 3** a. How many significant figures has 4052?

b. How many significant figures has 0.0306?

c. How many significant figures has 20.50?

(3 marks)

Answer _____

4

- a. Round 0.004567 to 2 significant figures.
- b. Round 58 420 to 2 significant figures.
- c. Round 3.0972 to 2 significant figures.

(3 marks)

Answer _____

5

- a. A calculator display shows 4.826193752. Write this number correct to 3 significant figures.
- b. A calculator display shows 0.0048029. Write this number correct to 3 significant figures.
- c. Write 0.0048029 correct to 1 significant figure.

(3 marks)

Answer _____

6

Work out $\frac{18.6^2}{7.9}$

- a. Write down all the figures on your calculator display.
- b. Write your answer correct to 3 significant figures.

(3 marks)

Answer _____

7

The floor area of a hall is 412.7 m².

Mrs Patel says "To 2 significant figures this is 410." Ivan says "To 2 significant figures this is 400."

Who is correct? Explain your answer.

(2 marks)

Answer _____

8

Use your calculator to work out

$$(8.2 + 3.55) \div 3.25$$

- Give this answer to 6 decimal places.
- Write your answer to part (a) correct to 4 significant figures.

(3 marks)

Answer _____

9

Use your calculator to work out

$$(2.8^2 - 1.9) \div (0.3 + 0.45)$$

- Write down all the figures on your calculator display.
- Write your answer to part (a) correct to 1 significant figure.

(3 marks)

Answer _____

10

A whole number, n , is rounded to 3 significant figures. The answer is 47 200.

Write down the smallest and the largest possible value of n .

(2 marks)

Answer _____

11

- Write the number 4738 correct to 2 significant figures.
- Write the number 0.05372 correct to 2 significant figures.

(2 marks)

Answer _____

12 Use your calculator to work out

$$(5.4^2 - \sqrt{53.29}) \div \sin 30^\circ$$

- Write down all the figures on your calculator display.
- Write your answer to part (a) correct to 3 significant figures.

(3 marks)

Answer _____

End of questions | Total 33 marks