

Rounding

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **23**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. You may use a calculator.

1 (a) Round 4 687 to the nearest 10

[1 mark]

Answer _____

(b) Round 4 687 to the nearest 100

[1 mark]

Answer _____

(c) Round 4 687 to the nearest 1000

[1 mark]

Answer _____

2 (a) Round 3.1462 to 1 decimal place.

[1 mark]

Answer _____

(b) Round 3.1462 to 2 decimal places.

[1 mark]

Answer _____

(c) Round 0.0496 to 2 decimal places.

[1 mark]

Answer _____

3 (a) Round 52 840 to 1 significant figure.

[1 mark]

Answer _____

(b) Round 0.003 862 to 2 significant figures.

[1 mark]

Answer _____

(c) Round 7.098 to 3 significant figures.

[1 mark]

Answer _____

- 4 Circle the number that is 6.1 when rounded to 1 decimal place.

[1 mark]

6.01

6.149

6.16

6.25

- 5 Here is a list of four numbers.

8.86 9.13 9.04 8.95

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

The number closest in value to 9 is _____

The number that rounds to 9.1 to 1 decimal place is _____

[2 marks]

- 6 Leo says,

‘0.0752 rounded to 1 significant figure is 0.1’

Is Leo correct? Tick a box.

Give a reason for your answer.

[1 mark]

☐ Yes

☐ No

- 7 Work out $\frac{12.4 \times 3.87}{2.1 + 0.65}$
Give your answer correct to 3 significant figures.

[2 marks]

Answer _____

- 8 A circle has radius 4.3 cm.
Work out the area of the circle.
Give your answer to 1 decimal place.

[2 marks]

Answer _____ cm²

- 9 Rhian has 148 photos to put in an album.
Each page of the album holds 6 photos.
How many pages does she need?

[2 marks]

Answer _____

10 The number of cars in a car park is 260, correct to the nearest 10.

(a) Write down the smallest possible number of cars in the car park.

[1 mark]

Answer _____

(b) Kay says,

‘There could be 265 cars in the car park.’

Is Kay correct? Tick a box.

Give a reason for your answer.

[1 mark]

☐

Yes

☐

No

11 Ines buys four books.

She rounds the price of each book to the nearest pound.

The total of her rounded prices is £20

Work out the least possible total cost of the four books.

[2 marks]

Answer £ _____