

Rounding to Significant Figures

ANSWERS

1 Round 4362 to 2 significant figures.

Th	H	T	O
4	3	6	2
4	4	0	0

○ first significant figure | cut after the 2nd deciding digit

Answer 4400

2 Round 0.004518 to 2 significant figures.

O	t	h	th	tth	htth	mth
0	0	0	4	5	1	8
0	0	0	4	5		

Answer 0.0045

3 Round 7583 to 1 significant figure.

Th	H	T	O
7	5	8	3
8	0	0	0

Answer 8000

4 Round 0.03075 to 2 significant figures.

O	t	h	th	tth	htth
0	0	3	0	7	5
0	0	3	1		

Answer 0.031

5 Round 28 649 to 3 significant figures.

TTh	Th	H	T	O
2	8	6	4	9
2	8	6	0	0

Answer 28 600

6 Round 6.849 to 2 significant figures.

O	t	h	th
6	8	4	9
6	8		

Answer 6.8

7 A stadium holds 48 652 people. Write this number to 2 significant figures.

the third figure is 6, so round up

Answer 49 000

8 How many significant figures does 0.0305 have?

the first two zeros do not count

Answer 3

Rounding to Significant Figures *further practice*

ANSWERS

9 Round 6471 to 2 significant figures.

between 6400 and 6500

Answer 6500

10 Round 38.264 to

1 significant figure 40

2 significant figures 38

3 significant figures 38.3

11 The Moon is 384 400 km from the Earth. Write this distance to 2 significant figures.

the third figure is 4, so round down

Answer 380 000 km

12 Round 5.0372 to 3 significant figures.

the zero between 5 and 3 counts

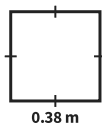
Answer 5.04

13 About 40 000 people watched a parade. This number is rounded to 1 significant figure. Which of these could be the real number?
34 980, 36 120, 44 870, 45 210

from 35 000 up to 44 999

Answer 36 120 and 44 870

14 A square tile has sides of 0.38 m. Work out its area. Give your answer to 2 significant figures.



$0.38 \times 0.38 = 0.1444$

Answer 0.14 m^2

15 Round 0.0996 to 2 significant figures.

between 0.099 and 0.10

Answer 0.10

16 Round 0.04628 to 2 decimal places and to 2 significant figures. Explain why the answers are different.

sf starts at the first nonzero digit

Answer 0.05 and 0.046