

# Round a number to 1 significant figure

- 1** Some numbers are written in a table.  
Underline the first significant figure in each of the numbers.  
Then complete the other columns.  
The first one has been done for you.

Number	Place value of 1st significant figure	Number rounded to 1 significant figure
<u>7</u> 3	Tens	70
730		
758		
7,300		
7,780		
704,000		
7.9		
0.71		

- 2** Round the numbers to 1 significant figure.

- |          |                      |          |                      |
|----------|----------------------|----------|----------------------|
| a) 328   | <input type="text"/> | e) 89.6  | <input type="text"/> |
| b) 1,719 | <input type="text"/> | f) 83.67 | <input type="text"/> |
| c) 1,219 | <input type="text"/> | g) 9.84  | <input type="text"/> |
| d) 83    | <input type="text"/> | h) 96.9  | <input type="text"/> |

- 3** Alex rounds 459 to 1 significant figure.



- a) Is Alex correct? \_\_\_\_\_

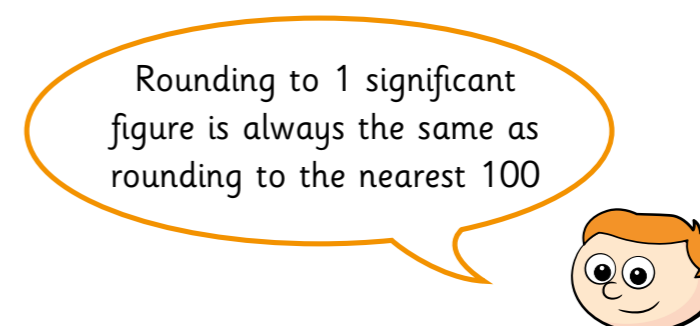
Explain why.

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- b)



- Is Ron correct? \_\_\_\_\_

Talk about it with a partner.

- 4** Which of these numbers could have been rounded to 1 significant figure?

Tick your answers.

- |       |                          |        |                          |
|-------|--------------------------|--------|--------------------------|
| 80.08 | <input type="checkbox"/> | 800    | <input type="checkbox"/> |
| 8     | <input type="checkbox"/> | 0.8    | <input type="checkbox"/> |
| 80    | <input type="checkbox"/> | 8.08   | <input type="checkbox"/> |
| 808   | <input type="checkbox"/> | 0.08   | <input type="checkbox"/> |
| 0.80  | <input type="checkbox"/> | 0.0008 | <input type="checkbox"/> |

What do you notice about your answers?

5 Dora is rounding numbers to 1 significant figure.



0.086 rounds to 0.1 as 8 is greater than 5, so the 0 goes up to a 1

Explain the mistake that Dora has made and write the correct answer.

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6 Round the numbers to 1 significant figure.

a) 0.0451	<input type="text"/>	b) 0.0000662	<input type="text"/>
0.451	<input type="text"/>	0.0002662	<input type="text"/>
0.000451	<input type="text"/>	2.000662	<input type="text"/>

7 Tommy rounds 0.003872 to 1 significant figure.

0.004000

How could Tommy improve his answer?

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8 Mo is rounding answers on his calculator to 1 significant figure.

a) Mo says the answer is 99

Explain the mistake that Mo has made and write the correct answer.



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b) Work out  $\frac{6.7 + 2.3}{9.6}$  on your calculator.

Round the answer to 1 significant figure.

9 The attendance at a football match is 28,765

a) Round this number to 1 significant figure.

The number of people who attend a different football match is 60,000 rounded to 1 significant figure.

b) What is the greatest possible number of people who attended the football match?

c) What is the least possible number of people who attended the football match?

10 When does rounding to 1 significant figure give the same answer as rounding to the nearest 10?

Talk about it with a partner and come up with a generalisation.

