What are significant figures?

1st significant figure
2nd significant figure
3rd significant figure
4th significant figure
5th significant figure
6th significant figure

1 5 0 8 . 0 6

Not significant
Not significant
1st significant figure
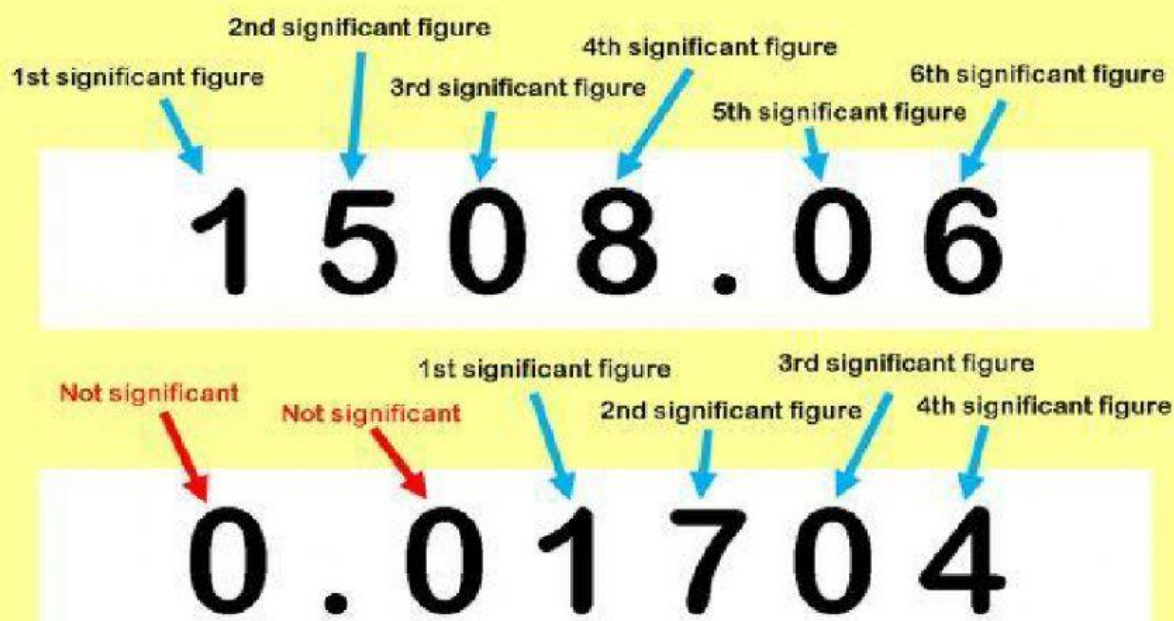2nd significant figure
3rd significant figure
4th significant figure

0 . 0 1 7 0 4

Notice: The zeros are not significant when they are at the beginning of the number.

How to round to significant figures

Round the following...	... to 1 significant figure	... to 2 significant figures
3875	4000	3900
6.254	6	6.3
0.07109	0.07	0.071

Classwork

How Many Significant Digits for Each Number?

1) 0.004 = _____   11) 2×10^{-6} = _____

2) 8680 = _____   12) 97 = _____

3) 0.00220 = _____   13) 4.100×10^{-5} = _____

4) 21.274 = _____   14) 7300 = _____

5) 8500 = _____   15) 9905 = _____

6) 0.0440 = _____   16) 400 = _____

7) 6600 = _____   17) 5.477×10^{-9} = _____

8) 560 = _____   18) 2.4×10^{9} = _____

9) 6.0×10^{3} = _____   19) 4.600×10^{2} = _____

10) 0.0007 = _____   20) 0.04 = _____