

Name _____ period _____ Date _____

Significant Figures and Rounding

For each of the following numbers, indicate how many significant figures there are. Then round each of them to the number of significant figures indicated.

For example:

1.235 has 4 significant figures and rounded to 3 significant figures is 1.24

We will do these as a class.

1) 0.6025 has _____ significant figures and rounded to 3 significant figures is _____

2) 115,000 has _____ significant figures and rounded to 1 significant figure is _____

3) 115,000.0 has _____ significant figures and rounded to 2 significant figures is _____

4) .00985 has _____ significant figures and rounded to 2 significant figures is _____

5) .009850 has _____ significant figures and rounded to 1 significant figure is _____

6) 1.03×10^{23} has _____ significant figures and rounded to 1 significant figures is _____

7) .002600 has _____ significant figures and rounded to 1 significant figure is _____

8) 1000.60 has _____ significant figures and rounded to 4 significant figures is _____

9) 2.0×10^{-3} has _____ significant figures and rounded to 3 significant figures is _____

10) 3.456110 has _____ significant figures and rounded to 2 significant figures is _____

Now you do these on your own.

11) 1200 has _____ significant figures and rounded to 1 significant figure is _____

12) .001 has _____ significant figures and rounded to 2 significant figures is _____

13) 6.02×10^{23} has _____ significant figures and rounded to 2 significant figures is _____

14) 1256.1 has _____ significant figures and rounded to 3 significant figures is _____

15) 25 has _____ significant figures and rounded to 1 significant figures is _____

16) 1.65×10^{-3} has _____ significant figures and rounded to 2 significant figures is _____

17) 245 has _____ significant figures and rounded to 2 significant figures is _____

18) 31.9 has _____ significant figures and rounded to 2 significant figures is _____

19) 103.6 has _____ significant figures and rounded to 1 significant figures is _____

20) 4.6×10^{-13} has _____ significant figures and rounded to 1 significant figures is _____