

Significant Figures

Worksheet-Answer Key

Name _____ Date _____

Exercise 1. Count the number of significant figures (sig figs, or s.f.) in each number below.

1	<u>1</u>	0.001	<u>1</u>
11	<u>2</u>	0.011	<u>2</u>
110	<u>2</u>	0.111	<u>3</u>
110.	<u>3</u>	1.111	<u>4</u>
111	<u>3</u>	1.001	<u>4</u>
111.0	<u>4</u>	11.001	<u>5</u>
111.00	<u>5</u>	111.001	<u>6</u>
111.000	<u>6</u>	111,000	<u>3</u>
1.000	<u>4</u>	111,000,000	<u>3</u>
1.001	<u>4</u>	111,000,001	<u>9</u>

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Exercise 2. Perform the following calculations, with correct sig figs:

$$2.2 + 1.1 = 3.3$$

$$\frac{1.0}{10.0} = 0.10$$

$$2.24 + 1.1 = 3.34 \rightarrow 3.3$$

$$\frac{3.5 - 3.0}{3.0} = \frac{0.5}{3.0} = 0.\overline{16} \rightarrow 0.2$$

$$2.22 + 1.18 = 3.40$$

$$\frac{4.0 - 3.0}{3.0} = \frac{1.0}{3.0} = 0.\overline{3} \rightarrow 0.33$$