

Name \_\_\_\_\_

Date \_\_\_\_\_ Hour \_\_\_\_\_

## Sig Figs – Rounding, Adding and Subtracting

\*Identify the number of significant figures in each of the numbers below

1) 0.0002 = \_\_\_\_\_

11)  $9.178 \times 10^{-3}$  = \_\_\_\_\_

2) 4060 = \_\_\_\_\_

12) 590 = \_\_\_\_\_

3)  $9.100 \times 10^1$  = \_\_\_\_\_

13) 37 = \_\_\_\_\_

4) 6701 = \_\_\_\_\_

14)  $2.60 \times 10^4$  = \_\_\_\_\_

5) 73.446 = \_\_\_\_\_

15) 695 = \_\_\_\_\_

6) 0.728 = \_\_\_\_\_

16)  $1.287 \times 10^{-4}$  = \_\_\_\_\_

7) 0.0605 = \_\_\_\_\_

17) 7840 = \_\_\_\_\_

8)  $3.700 \times 10^5$  = \_\_\_\_\_

18) 0.007 = \_\_\_\_\_

9)  $3.200 \times 10^{-6}$  = \_\_\_\_\_

19)  $2.330 \times 10^{-5}$  = \_\_\_\_\_

10) 5822 = \_\_\_\_\_

20) 1342 = \_\_\_\_\_

\* Round the following numbers to the appropriate number of significant figures indicated

**Round to 4 sig figs:**

$3.682417 =$

$21.860051 =$

$375.6523 =$

$112.511 =$

$45.4673 =$

$95.30500 =$

**Round to 1 sig fig:**

$1.3511 =$

$2.473 =$

$5.687524 =$

$7.555 =$

$8.235 =$

$10.005600 =$

**Round to 2 sig figs:**

$22.494 =$

$79.2588 =$

$0.03062 =$

$3.4125 =$

$41.86632 =$

$106.12045 =$

\* Express the answer to each problem below using the sig fig correct rules for addition and subtraction.

$$1) \quad 7.2 + 99.959 = \underline{\hspace{2cm}} \quad 11) \quad 86.14 - 78.1974 = \underline{\hspace{2cm}}$$

$$2) \quad 32.8217 + 7.4895 + 5.6 = \underline{\hspace{2cm}} \quad 12) \quad 21.79 + 2.4 = \underline{\hspace{2cm}}$$

$$3) \quad 92.82 - 3.24 = \underline{\hspace{2cm}} \quad 13) \quad 43.4 + 14.2636 = \underline{\hspace{2cm}}$$

$$4) \quad 65.5 - 5.174 = \underline{\hspace{2cm}} \quad 14) \quad 8.858 + 58.9415 + 83.173 = \underline{\hspace{2cm}}$$

$$5) \quad 3.5998 + 36.231 = \underline{\hspace{2cm}} \quad 15) \quad 97.1 + 76.536 = \underline{\hspace{2cm}}$$

$$6) \quad 8.9 + 57.3526 + 22.84 = \underline{\hspace{2cm}} \quad 16) \quad 71.822 + 93.5 + 4.7518 = \underline{\hspace{2cm}}$$

$$7) \quad 92.534 + 4.76 + 6.5 = \underline{\hspace{2cm}} \quad 17) \quad 96.8 - 8.9 = \underline{\hspace{2cm}}$$

$$8) \quad 91.1 + 97.743 = \underline{\hspace{2cm}} \quad 18) \quad 85.5297 - 9.8944 = \underline{\hspace{2cm}}$$

$$9) \quad 5.867 + 3.2733 + 7.88 = \underline{\hspace{2cm}} \quad 19) \quad 47.6634 + 5.959 + 12.62 = \underline{\hspace{2cm}}$$

$$10) \quad 6.63 - 4.7 = \underline{\hspace{2cm}} \quad 20) \quad 5.8485 + 21.1946 = \underline{\hspace{2cm}}$$