

Name: _____

Significant Figures and Subtraction and Addition
and Multiplication/Division Review

Sig. Figs: Determine the number of significant figures in each measurement.

- | | |
|-------------|----------------------------|
| 1. 46 cm | 7. 400 cm |
| 2. 306.2 g | 8. 0.00432 mm |
| 3. 0.329 m | 9. 10.0 kg |
| 4. 83.952 K | 10. 5.09×10^4 sec |
| 6. 3700 mm | 11. 0.0432020 L |
| 7. 400.0 cm | 12. 82.000 g |

Multiplication/Division: Calculate the following with the correct number of sig figs.

1. $215.00 \text{ m} \times 0.02 \text{ m} =$
2. $95,000 \text{ L} \times 200 \text{ L} =$
3. $25.36 \text{ g} / 5 \text{ g} =$
4. $25.2 \text{ cm} \times 20.00 \text{ cm} =$
5. $69.0 \text{ mL} / 68.99 \text{ mL} =$
6. $100.0 \text{ kg} / 0.0025 \text{ kg} =$

Addition/Subtraction: Calculate the following with the correct number of sig figs.

- | | | |
|--|---|---|
| 1. $\begin{array}{r} 23.36 \text{ g} \\ + 5.6 \text{ g} \\ \hline \end{array}$ | 2. $\begin{array}{r} 0.022580 \text{ m} \\ + .0095 \text{ m} \\ \hline \end{array}$ | 3. $\begin{array}{r} 2514.6 \text{ g} \\ - 52.6 \text{ g} \\ \hline \end{array}$ |
| 4. $\begin{array}{r} 15.2 \text{ m} \\ + 2.00 \text{ m} \\ \hline \end{array}$ | 5. $\begin{array}{r} 125.2 \text{ ml} \\ - 100 \text{ ml} \\ \hline \end{array}$ | 6. $\begin{array}{r} 95.3 \text{ cm} \\ + 3.22 \text{ cm} \\ \hline \end{array}$ |
| 7. $\begin{array}{r} 250. \text{ km} \\ - .025 \text{ km} \\ \hline \end{array}$ | 8. $\begin{array}{r} 50.0 \text{ g} \\ + 0.26 \text{ g} \\ \hline \end{array}$ | 9. $\begin{array}{r} 0.02584 \text{ g} \\ + 0.0001 \text{ g} \\ \hline \end{array}$ |