

CHEM 101
Significant figures worksheet

Assume that all numbers in these problems are “measured” numbers. Perform the calculations. Make sure that your answer has the correct number of significant figures.

1. $6.25 - 0.4$
2. $8.2564 + 0.56$
3. $8.886 + 901$
4. $6.25 - 6.21$
5. $2.95 + 7.51$
6. 2.9×10.5
7. $6.28 / 5.62$
8. $6.28 / 5$
9. 3.1895×2.7
10. 2.6×2.89
11. $\frac{2.9 \text{ in} - 2.4 \text{ in}}{3.06 \text{ in}}$
12. $\frac{300.6 \text{ in} - 2.4 \text{ in}}{2.9 \text{ in}}$
13. $\frac{8.6245 \text{ g} - 2.92 \text{ g}}{2.06 \text{ mL}}$

Answers:

- | | |
|----------|-----------------------|
| 1. 5.9 | 7. 1.12 |
| 2. 8.82 | 8. 1 |
| 3. 910. | 9. 8.6 |
| 4. 0.04 | 10. 7.5 |
| 5. 10.46 | 11. 0.16 |
| 6. 30. | 12. 1.0×10^2 |
| | 13. 2.77 g/mL |