Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Count the sig figs: Express the number as 3 sig figs:***

1. 1230 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
2. 45.69 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
3. 39.05 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
4. 4.6973 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
5. 0.0045 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
6. 1.56000 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
7. 0.0003600 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
8. 6.30 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
9. 500600 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
10. 0.1697 \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

***Calculate and round answers using sig fig rules:***

1. 45 x 2.3 \_\_\_\_\_
2. 98.25 - 0.3578 \_\_\_\_\_
3. 6.7800 + 0.02 \_\_\_\_\_
4. 5.3 - 0.023 \_\_\_\_\_
5. 95 + 2.6 + 0.14 \_\_\_\_\_
6. 4.63 x 6.2 \_\_\_\_\_
7. 6.14 x 4.200 \_\_\_\_\_
8. 654 x 25 \_\_\_\_\_
9. 6.25 / 41.23 \_\_\_\_\_
10. 6975 / 33.1 \_\_\_\_\_

**Chemistry: SIGNIFICANT FIGURES**

Determine the number of significant figures in the following numbers:

1. 123.006 \_\_\_\_\_ 8. 8.2 \_\_\_\_\_

2. 0.00007 \_\_\_\_\_ 9. 902.006 \_\_\_\_\_

3. 240,500 \_\_\_\_\_ 10. 0.0045 \_\_\_\_\_

4. 306 \_\_\_\_\_ 11. 0.0050 \_\_\_\_\_

5. 600.0 \_\_\_\_\_ 12. 306.003 \_\_\_\_\_

6. 0.0105 \_\_\_\_\_ 13. 809.0000 \_\_\_\_\_

7. 1.00 \_\_\_\_\_ 14. 2500 \_\_\_\_\_

Express the answer to the correct number of significant figures:

20. 34.0 x 24.53 = \_\_\_\_\_ 26. 0.0005 x 0.023 = \_\_\_\_\_

22. 1.7 ÷ 0.456 = \_\_\_\_\_ 27. 456.6 / 20 = \_\_\_\_\_

23. 19.0 x 0.4567 = \_\_\_\_\_ 28. 0.06 x 0.0452 = \_\_\_\_\_

24. 4 / 23.654 = \_\_\_\_\_ 29. 0.0040 x 0.003 = \_\_\_\_\_

25. 345 x 2.00 = \_\_\_\_\_ 30. 19 / 0.03 = \_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SIGNIFICANT FIGURES Homework**

Determine the number of significant figures in the following numbers:

1. 102 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 2.000 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 0.015 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 45 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 45.0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 0.003 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 0.0030 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 42.03 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Express the answer to the correct number of significant figures:

1. 45.2 x 6.00 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 0.0005 x 3.25 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 4.300 / 0.0026 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 203 x 4.532 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 0.0334 / 0.0023 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_