# **Chemistry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Period\_\_\_\_\_\_\_\_\_**

**Metric calculations and conversions**

Convert:

1. 3.46 centigrams to milligrams
2. 1.00 kilograms to centigrams
3. 24.0 milligrams to kilograms
4. 247 milligrams to grams
5. 1.71 millimeters to centimeters

6. 405 mL to cm3

1. 750 cm to dm
2. 25.0 m to cm
3. 35.5 cmto dm
4. 5.00 km/hr to m/sec

# **Chemistry A Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Period\_\_\_\_\_**

**Basic calculations and significant digits**

Perform the following calculations and express the answers in the correct number of significant digits.

1. (35.72) (0.00590) 2. (707,000) (3.1)

3. (0.05432) (62,000) 4. (0.0059000) (38.76)

5. 6810.12 / 2.4 6. 0.4832 / 5.12

7. 201 + 3.57 + 98.493 8. 5.32 – 0.75938

9. (6.09 x 10-1) (9.08 x 105) 10. (1.65 x 101) (5.24 x 102)

11. (1.10 x 109) (4.75 x 109) 12. (1.18 x 10-2) (2.20 x 103)

13. (8.17 x 101) (8.70 x 105) / (4.20 x 105)

1. (4.87 x 106) (9.69 x 101) / (2.84 x 106)
2. (7.79 x 104) (6.45 x 104) / (5.44 x 106) ( 7.45 x 10-1)
3. (7.69 x 102) (6.56 x 106) / (2.92 x 104) (1.65 x 104)
4. (9.19 x 107) (1.79 x 101) / (8.17 x 104) (8.32 x 107)

18. (6.40 x 102) (9.97 x 104) / (6.12 x 10-2) (9.71 x 104)