NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_Period: \_\_\_\_\_\_\_\_\_

Unit conversion Homework

Given: 1.00 in = 2.54 cm                      12.0 in = 1.00 ft                       1000 m = 1.00 km

            100 cm = 1.00 m                      5280 ft =1.00 mile                    1.00 mile = 1.60 km

            10 mm = 1.00 cm                     60.0 sec = 1.00 min                  60.0 min = 1.00 H

1. Convert the following units. Show your work. If necessary, show your answer in scientific notation.
2. Convert 10.0 miles to kilometers. \_\_\_\_\_\_\_\_\_\_\_\_\_
3. Convert 1.000 foot to centimeters. \_\_\_\_\_\_\_\_\_\_\_\_\_
4. Convert 10.0 feet to millimeters. \_\_\_\_\_\_\_\_\_\_\_\_\_
5. Convert 100.0 km/hr to mi/hr. \_\_\_\_\_\_\_\_\_\_\_\_\_
6. Convert 50.0 inches/sec to mi/hr. \_\_\_\_\_\_\_\_\_\_\_\_\_
7. Convert 88 ft/sec to mi/hr. \_\_\_\_\_\_\_\_\_\_\_\_\_
8. Express the following in scientific notation.
9. Express 53200 g in scientific notation. \_\_\_\_\_\_\_\_\_\_\_\_\_
10. Express 599245 miles in scientific notation \_\_\_\_\_\_\_\_\_\_\_\_\_
11. Express 0.0053 inches in scientific notation \_\_\_\_\_\_\_\_\_\_\_\_\_
12. Express 0.00001 meters in scientific notation \_\_\_\_\_\_\_\_\_\_\_\_\_
13. Convert these numbers in scientific notation to decimal form.
14. 8.71x10-3 m \_\_\_\_\_\_\_\_\_\_\_\_\_
15. 2.56x102 m \_\_\_\_\_\_\_\_\_\_\_\_\_
16. 1.28x105 m\_\_\_\_\_\_\_\_\_\_\_\_\_
17. 5.21x10-4 m \_\_\_\_\_\_\_\_\_\_\_\_\_
18. How many mm are in each of the following measurements? Show your answer in scientific notation.

o. 500µm \_\_\_\_\_\_\_\_\_\_\_\_\_

p. 2Gm \_\_\_\_\_\_\_\_\_\_\_\_\_

q. 4nm \_\_\_\_\_\_\_\_\_\_\_\_\_

r. 50cm \_\_\_\_\_\_\_\_\_\_\_\_\_

s. 5m \_\_\_\_\_\_\_\_\_\_\_\_\_

