Ch. 2 Test Review: Measurements and Calculations.

The test for Ch. 2 covers: 1) lab safety, 2) dimensional analysis, 3) scientific notation, 4) significant figures, and 5) the metric system. If you can correctly answer these questions, you should perform well in the test. I will provide you with a copy of the conversion factors chart.

1. A measurement that closely agrees with accepted values is said to be	
2. If 1 inch equals 2.54 cm, how many centimeters equal 3 yards?	
3. The most appropriate SI unit for measuring the length of an automobile is the	
4. The number of significant figures in the measurement 0.000 405 kg is	
5. 1.06 L of water is = mL	
6. List the SI base units. (The units that have a value of 1.0)	
7. A volume of 1 cubic centimeter is equivalent to	
8. To two significant figures, the measurement 0.0355 g should be reported as	
9. The metric unit for length that is closest to the thickness of a dime is the	
10. If some measurements agree closely but differ widely from the actual value, these measurements are	·e
11. A measurement is said to have good precision if it	
12. The symbol for the metric unit used to measure mass is	
13. How many significant figures in the number 0.006?	
14. The number of grams equal to 0.7 kg is	
15. The SI base unit for length is the	
16. The speed of light is 300 000 km/s. In scientific notation, this speed is	
17. 0.25 g is equivalent to mg.	
18. Written in scientific notation, the measurement 0.000 075 cm is	
19. The symbol that represents the measured unit for length is	
20. How many significant figures in the number 1.006?	
21. The average distance between the Earth and the moon is 386 000 km. Expressed in scientific notation	n,
this distance is	
22. The symbol mm represents	
23. A measure of the quantity of matter is	
24. 0.05 cm is equal to mm.	
25. The symbols for units of length in order from smallest to largest are (<i>think prefixes</i>)	
26. The number of significant figures in the measurement 180.060 km is	
27. Express the solution to this problem using proper scientific notation. (5.96 x 10°) + (3.91 x 10°)	
28. 5168 g =lb	

30. Convert using dimensional analysis: 5977 mm = _____ in
31. Convert using dimensional analysis: 6.0 miles = _____ km. Use correct significant figures!

32. Convert using dimensional analysis: How many minutes are in 2 weeks?