

Review Worksheet

1) **Convert** each of the following from metric prefixes into standard units with scientific notation:

- a) 700 nm
- b) 4.5 Gs
- c) 1.34 pL

2) **Determine** the number of sig digs in each of the following numbers:

- a) 0.00002302
- b) 543.00
- c) 12.01
- d) 342 870
- e) 102
- f) 0.00123
- g) 3
- h) 0.002

3) You are filling drink cups at a fast food restaurant. Your boss tells you that each has to be filled with 300 mL. **Illustrate** how you could have problems with the precision and accuracy of doing your job.

4) **Solve** for the variable indicated in each of the following formulas:

a) $v_f^2 = v_i^2 + 2ad$ $v_i = ?$ b) $E_k = \frac{1}{2}mv^2$ $m = ?$

5) **Sketch** a graph that shows the following information:

Temperature (°C)	Time (s)
0	0
5	10
8	20
16	30
19	40

