PHYS 201 Fall 2014 Lecture 1 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The class will watch the following videos. At the conclusion of the videos, do the three conversion problems and turn it in before you leave.

<http://www.youtube.com/watch?v=tiA631R23nY> (9.41 min)

<http://www.youtube.com/watch?v=DP-P0xD5VXk> (9.33 min)

Convert the following and express them with correct number of significant figures.

1. A student sees a newspaper ad for an apartment that has 1330 square feet of floor space. How many square meters of area are there? (1 ft. = 0.3048 m).
2. Density of the metal aluminum is 2.7 g/cm3. Convert it to kg/m3.
3. Express the speed limit of 65 miles/hour in terms of meters/second. (1 mile = 1609 m).