Gravity Homework #1

Name_____
Period _____ Date _____

Answer each question.
Show all work, formulas, and labels.
Round to nearest Hundredth. (.01)

Distance	**Velocity**	**Final Velocity**
$s = .5gt^2$	$V = s/t$	$V_f = gt$
Label is m	Label is m/s	Label is m/s

1. A skydiver jumps from an airplane and is in a free fall.
   a. How far will he fall in 4 seconds?
   b. How far will he fall in 6 seconds?
   c. How far will he fall in 8 seconds?
2. A rock falls from a mountain in 6 seconds before hitting the ground?
   a. How far does the rock fall?
   b. What was the average velocity as the rock?
   c. What was the final velocity of the rock when it hit the ground?
3. A silver dollar is dropped from the top of the Empire State Building and reaches the ground in 8 seconds.
   a. How tall is the building?
   b. What was the average velocity of the silver dollar as it fell?
   c. What was the final velocity of the silver dollar when it hit the ground?