

1. Fill in the following table

Formula	G/D	Amount	Rate %	Time
$f(t) = 500(1+.25)^{10}$				
$f(t) = 200(0.75)^5$				
$f(t) = 100(1.33)^2$				
$f(t) = 1000(1-0.001)^{10}$				

Use the growth/decay formula we learned in class to solve the following problems. Please write out your formula and show your work for each problem. Round each problem to the nearest whole number for objects or the nearest cent for money.

2. A hunk of a radioactive material was discovered in Russia! The hunk currently has 260 atoms in it but is decaying at a rate of 8% a month.
 - a. Write out your exponential function $f(t)$
 - b. How many atoms will be left in 4 months?
 - c. in 2 years?

3. Malik bought a new car for \$ 15,000. As he drove it off the lot, his best friend, Will, told him that the car's value just dropped by 15% and that it would continue to depreciate 15% of its current value each year.
 - a. Write out your exponential function $f(t)$
 - b. How much will the car be worth after 5 years?

