Name	 

## Compound Interest Practice Worksheet

Directions: Use the formula  $A = P(1 + \frac{r}{n})^m$  where A represents the total amount, P represents the principal, r represents the interest rate as a decimal, n represents the number of times per year interest is compounded, and t represents the time in years to answer the questions below.

- 1) A coin had a value of \$1.17 in 1995. Its value has been increasing at 9% per year. What is the value after 5 years?
- 2) Gina deposited \$1500 in an account that pays 4% interest compounded quarterly. What will the balance be in 2 years?

- 3) The Garcias have \$12,000 in a savings account. The bank pays 3.5% interest on savings accounts, compounded monthly. Find the total balance after three years.
- 4) Determine the amount of **interest** earned on a \$2500 investment if it is invested at 5.25% annual interest compounded monthly for four years.
- 5) Determine the amount of interest earned on a \$100,000 investment if it is invested at 5.2% annual interest compounded quarterly for 12 years.

makes an initial deposit of \$1000, the company pays 8% interest comp quarterly. If an employee withdraws the money after five years, how note the account?	
7) Using the information in the question above, find the interest earned it is withdrawn after 35 years.	f the money
8) Mr. and Mrs. Boyce bought a house for \$96,000 in 1995. Real estate value of their area increase approximately 4% each year. What was the value of in 2007?	
9) Determine the amount of interest earned if \$500 is invested at an inter 4.25% compounded quarterly for 12 years.	est rate of
10) Determine the final account balance of an investment if \$300 is invested interest rate of 6.75% compounded semiannually for 20 years.	ed at an
11) The Greens bought a condo for \$110,000 in 2005. If its value appreciate per year, what will the value be in 2012?	ates at 6%