## Accounting October 5, 2016

 Name Tags, Please!! SMS check in Compounding Practice exam Exam next class

## Compound Interest Formula



P = principal amount (the initial amount you borrow or deposit)
r = annual rate of interest (as a decimal)
t = number of years the amount is deposited or borrowed for.
A = amount of money accumulated after n years, including interest.
n = number of times the interest is compounded per year

## Example

 An amount of \$1,500.00 is deposited in a bank paying an annual interest rate of 4.3%, compounded quarterly. What is the balance after 6 years?

Using the compound interest formula, we have that

P = 1500, r = 4.3/100 = 0.043, n = 4, t = 6. Therefore

$$A = 1500 \left( 1 + \frac{0.043}{4} \right)^{4(6)} \approx \$1,938.84$$