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## Example: If you save \$1,000 at 7% per year compounded yearly for 10 years

A = Amount accumulated at the end P = \$1,000

r = 0.07 n = 1 t = 10

## Example: If you save \$1,000 at 7% per year compounded monthly for 10 years

A = Amount accumulated at the end

P = \$1,000

r = 0.07

n = 12

t = 10

#### The Formula to Calculate Compound Interest:

 $A = P(1 + r/n)^{nt}$ 

A = Amount accumulated at the end

#### P = Amount at the beginning

r = interest rate (decimal)

n = number of times interest is compounded per time period

t = number of time periods the money is kept earning interest

# Only for your information... You will not be asked to use it

#### The Formula to Calculate Compound

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### The Rule of 70