## **Compound Interest**

Compound Interest

Compound Interest: Interest paid on the initial investment (called the principal) and on any previous interest.

Interest is usually compounded more than once a year.

P: \$ 1000

Formula for Compound Interest

Example: You deposit \$1000 in a bank account that pays 8% annual interest. Find the balance after two years if you compound the interest:

p.29

3. 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?

Formula:

Answer:

P: 1,500 R: .043 £: 6 y=1,500(1+ .043,(4-6) \$1,938.84

How much is the amount of interest earned?

-1,938.84 1,500 1,438.84 Practice time: Homework worksheet

ODD's only!