Today's Learning Goal(s):

By the end of the class, I will be able to:

a) Calculate the amount of an investment for a variety of compounding periods.

MCF 3MI

8.2 Compound Interest: Determining Future Value

$$A = P(1+i)^n$$
 or $FV = PV(1+i)^n$

Date: _____

Ex. 1: Compare investing \$1400 for 5 years in the following compound-interest accounts

OPTION A: 12%/a compounded annually

OPTION B: 12%/a compounded semi-annually

OPTION C: 12%/a compounded quarterly

OPTION A:

OPTION B:

OPTION C:

A=?	A=?	A=?
P=1400	P=1400	P=1400
i =	i =	i =
=	=	=
n =	n =	n =
=	=	=

NOTE:

The amount of an investment increases as the number of compounding periods incre

- Ex. 2: Compare investing \$825 for 4 years:
 - a) $7\frac{1}{2}$ %/a compounded monthly.
 - b) $7\frac{1}{2}$ %/a simple interest.
 - c) Determine the difference between these investments at the end of the 4th year.

a)

b)

c) Difference = compounded monthly - simple