Are there any Homework Questions you would like to see on the board?

pp. 476-477 # 1, 2, 8, 10

Today's Learning Goal(s):

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

a) Use the TVM Solver to solve problems involving future value, present value, number of payments, and interest rate.

8.4 Compound Interest: Solving Financial Problems (Using the TVM Solver)

$$A = P(1+i)^n$$
 or $\frac{A}{(1+i)^n} = P$ Date: June 4/18

Ex. 1: Kelly invests \$725 at 5.2%/a interest compounded quarterly. What is the total amount in Kelly's account at the end of 6 years?

$$A = ?$$

$$P = 725$$

$$i = 0.052$$

$$A = P(1+i)^{N}$$

$$= 725(1 + 0.052)^{24}$$

$$= 988.47$$

$$= 4988.47$$

$$= 4988.47$$
Kelly will have 4988.47 in the account at the end of 6 years.

Ex. 2: How much did Barry initially invest in his savings bond, if after 5 years, he got \$5000 back with 6.5%/a interest compounded semiannually?

$$A = 5000$$

$$A = P(1+c)^{N}$$

$$5000 = P(1+0.065)^{10}$$

$$5000 = P(1+0.065)^{10} = P$$

$$1 = 5 \times 2$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

$$1 = 363/.360$$

Now, using your Chromebook and the weblink in our Google classroom, we can check our work using a TVM Calculator.

TVM Calculator							
PV:	\$	Rate:	%				
PMT:	\$	Periods:					
FV:	\$	Annual	▼				
P\	/ PMT	FV Ra	ate Periods				

For the software to work properly, PV (present value) must be negative. "Periods" is "n", the number of compounding periods.

Use TVM calculator to fill out the following table:

1	[=	A	_	p
-		, ,		

Prinicpal (\$)	Annual Interest Rate (%)	Years Invested	Compounding Period	Final Amount (\$)	Interest Earned (\$) J= FU-PV
1300	2.45	6	monthly	\$1505.63	\$205-63
327.22	$5\frac{1}{4}$	4	quarterly	279.93	52.71
12 000	3.24	7	weekly	15 053.88	3053.80
+ 450	3.5	20	semi-annually	900.72	450.72
3800	4.6	14	daily	7234	3434. ∞
7838.40	$2\frac{3}{4}$	2	annually	8275.44	437.04

$$A = P(1+i)^{n}$$
 $A = 900.72$
 $P = 450$
 $C = \frac{0.035}{2}$
 $A = 2.2$

= 2X

Revisit Today's Learning Goals

Today's Homework:

```
pp. 486-488 #1 – 3, 6, 7, 10, 14

READ pp. 489-490

(Mid-Chapter Review) pp. 491-492 # 1, 2, 4 – 14
```

Continue completing your UNIT ASSIGNMENT!!