## Today is 9/26/17 You will need your notes and a graphing calculator today

Agenda:

Brain teaser

Review

**Test** 

Tomorrow

1. Calculate the simple interest on \$3,750 at 7% for 10 years.

2. Calculate the total balance using simple interest on \$8,500 at 4.5% for 6 months.

3. Determine the total balance and interest after 9 years on \$12,000 compounded quarterly with an annual interest rate of 6%.

20,509.67

Practice p.21

1) How much money will you have in you invest \$5,000 at 5% interest for 10 years? (Simple interest)

Total= \$ <u>7500</u> Interest= \$ <u>2500</u>

2) How much money will you have if you invest \$5,000 at 5% interest for 10 years compounded quarterly? (Compound interest)

p.22

3) How much money will you have if you invest \$400 at 8% interest for 6 years?

p.26

Practice with the Finance App.

Compute the Future Value and Interest earned for each of the following using the Finance App. In the  $2^{nd}$  Row, add the letters for your variable list. The first is done for you. \*PMT=0

Principle	Rate		Time	Future Value	Interest Earned
PV	I	CY/PY	N	FV	FV - PV
\$2000	5% compounde	ed semiannually,2	× 1 yr	\$2101.25	\$101.25
\$4000	5½% compound 5.25	ed semiannually2	×2 yrs =4	\$4436.83	\$436.83
\$500	7% compound	ded quarterly 4 ×	4 yrs =16	\$659.96	\$159.96
\$6500	6½% compour 6.5	nded quarterly4 ×	3 yrs =12	\$7887.15	\$1387.15
\$7000	5% compour	nded monthly 12 x	2.5 yrs =30	\$7929.98	\$929.98

Compute the Monthly Payment, Interest and Total Amount Repaid for each of the following using the Finance App. In the 2<sup>nd</sup> Row, add the letters for your variable list. The first is done for you. Remember FV will be 0.

Use BEGIN Assume compounded monthly

	USE	S DEGTIN	ASS	ume com	pounaea m	IONTHIY
Amount	APR		Time	Monthly	Total	Interest
Borrowed				Payment	Amount	Earned
					Repaid	
PV					= Time *	=Total –
			N	PMT	Monthly	Amount
	I	compounded			Payment	Borrowed
\$2000	15% monthly 12		×5 yrs =60	\$46.99	\$2819.40	\$819.40
\$4000	5:	5½% monthly		\$175.17	\$4204.08	\$204.08
\$500	7% monthly		4 yrs =48	\$11.98	\$575.04	\$75.04
\$6500	$6\frac{1}{2}\%$ monthly		3 yrs =36	\$198.15	\$7133.40	\$633.40