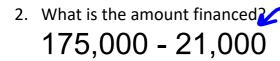
Group Activity - Mortgage! #1

You agree to purchase a \$175,000 and make a 12% down payment. The interest rate is 4.75% and it is May 15<sup>th</sup>. You are financing over 30 years.

1. What is your downpayment?



P=154,000

3. How many days left in month?

$$31 - 15 =$$

16 DAYS

4. What is the prepaid interest cost?

$$154,000 \times .0475 = $7,315 \text{ per year}$$

7315/365 = \$20.04 per day interest

5. What is your monthly payment?

$$MP = P(r/12) / (1 - (1 + r/12)^{-m})$$

$$P = 154000$$

$$r = .0475$$

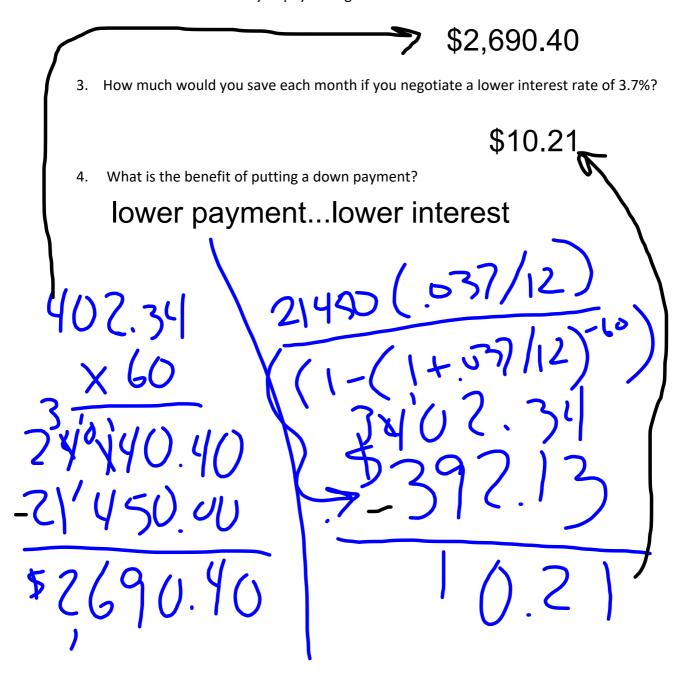
$$m = 12 \times 30 = 360$$

403.33

Group Activity - Loan! #2

- Q. You are purchasing a car that costs \$21,450 financed over 5 years at 4.75% interest. (#1-3)
  - 1. What is the monthly payment on this car?

2. How much interest will you pay during the life of the loan?



### Group Activity! - Mortgage #3

Q. You are purchasing a \$380,000 home on June 13<sup>th</sup> and make 18% down payment. The interest rate is 6.75%. You are financing it over 25 years. (#5-10)

1. How much is your down payment?

2. How much is the amount financed?

3. What is the prepaid interest cost?

311,600 
$$\times$$
 . 0675 = 21,033/  $^{15}$ 

What is your monthly payment?

How much would you save each month if the interest rate is 4.6% instead?

6. What is the price range of the closing costs? (2%-7%)

#### Group Activity! - Mortgage #4

You are purchasing a \$240,000 home on June 18th and make 15% down payment. The interest rate is 5.6%. You are financing it over 30 years.

1. How much is your down payment?

\$36,000

. How much is the amount financed?

\$204,000

. What is the prepaid interest cost?

\$375.58

. What is your monthly payment?

\$1171.12

$$\begin{array}{c} (1) 2400000 \times 15 = 3600) \\ (2) 2400000 - 3600000 \\ = 204,000 \\ (3) (2040000 \times .056) \times 12 \\ \hline 366 \end{array}$$

### Group Activity! - Living #5

The monthly rent on your apartment is \$416.67. You have an hourly wage job at which you work 40 hours per week during 50 weeks of the year.

1. If you spend 25% of your gross annual salary on rent, what is your gross annual salary?

\$20,000

2. If all of the above is true, how much do you earn per hour? (take your time!)

\$10 per hour

## Group Activity! - Floor Plan #6

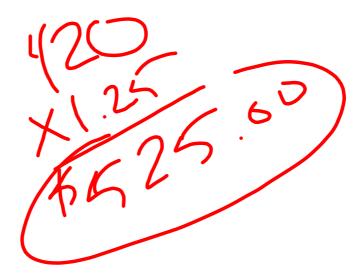
A rectangular room measures 28 feet by 15 feet. The room is drawn to a scale of ½ inch represents 1 foot.

1. What are the dimensions of the room on the scale

drawing?  $\frac{1N}{ft} \rightarrow \frac{1}{1} = \frac{X}{28}$   $\frac{1}{1} = \frac{11}{28}$ 

2. If carpet costs \$1.25 per square foot, **how much would** it cost to carpet this room?





# FORMUUS

MONTHLY PAYMONT

$$MP = \frac{P(r/12)}{(1-(1+r/12)^{-m})}$$

P=PRINCIPLE

Y=rate

m= # OF MONTHS

FINDING CROSS PAY GIVEN RENT

MONTINLY 15 X:/. OF GROSS
PLENT

X:/. OF GROSS

X:/. OF GROSS