	WARM UP COPY and SOLVE
	What is the percent change?
AGENDA	1. From 30 to 60 2. From 40 to 75
Warm-Up	
Review Hw	
<u>Cornell Notes:</u> Simple Interes <u>t</u>	
	3. From 80 to 20 4. From 110 to 50
Solution	
HOMEWORK	
	5. Which problems above represent
	decrease?
	6. If the values represented money, what
	else could you say to describe the change?

Simple Interest

I = Prt

I = interest

(\$ earned or added to debt)

P = Principal

(\$ you start with; invested or borrowed)

r = rate

(percent; change to a decimal)

t = time

(measured in years)



Ex) How much time do you have your money in savings if you have earned \$126 in interest at 5% with an initial investment of \$1,800?

___ = <u>Prt</u>

 $126 = 1800 \times .05 \times t$

126 = 90t

90 90

1.4 = t

1.4 years



STEPS TO SOLVE SIMPLE INTEREST **Problems:**

- 1. Input the information given
- 2. Solve for the Unknown

Ex) Find the amount invested it after 4 years, you earn \$3300 in interest at 15%.



I = Prt



If P = \$10,500, r = 4% and t = 3 years, then find the interest.

If you have \$2000 balance on your credit card with a 13% finance charge, how much interest will you pay after 2 years?





f you buy a house for \$105,000 at a 3% iterest rate, what is the total you will back on the loan after 15 years?



WARM UP COPY and SOLVE

AGENDA Warm-Up Review

- Information Picture Solution

- 1. Write the formula for simple interest.
- 2. Label each part of the formula.
- 3. What is the interest paid? HOMEWORK Credit card debt of \$7,000, 16%, 8 yrs
 - 4. What is the the amount invested? \$2,500 earned, 2.5%, 5 years

Simple Interest Formula: I = Prt where ...

"I" - interest or money earned

"P" - principal invested or borrowed

"r" - rate (percentage) *use as a decimal

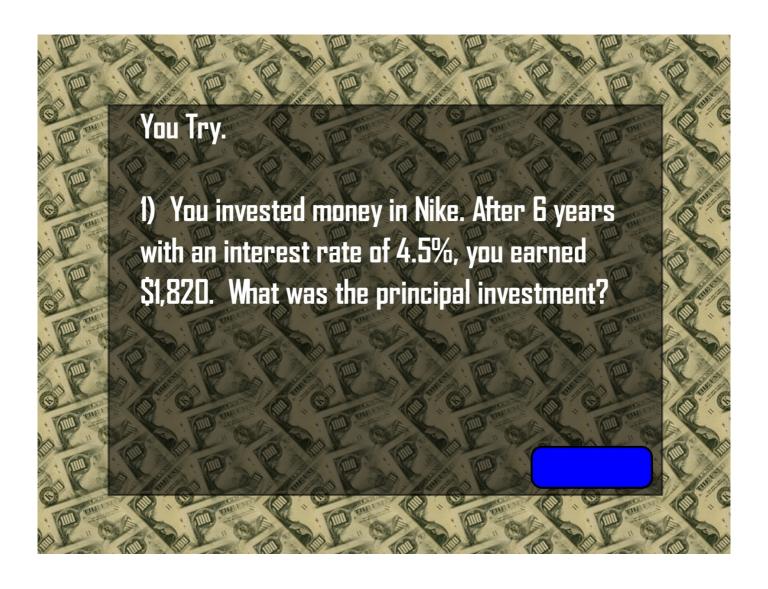
"t" - time (years)



You purchased a car for \$31,000 at a rate of 4.2%. After 4 years how much have you paid in interest?

Example 2:

You earn interest for having a savings account at the bank. If your balance was \$900 and after 7 years you earned \$201.60, what was the rate? (Round to the nearest tenth of a percent.)



WARM UP COPY and SOLVE

AGENDA

Warm-Up

Review Hw Class Activity Group Review Problem Card

- Information icture
 Solution
- **HOMEWORK**

What is the percent change?

- 1. Find the tax: \$28, 7.5% tax
- 2. Find the sale price: \$52,15% discount
- Information 3. Find the % change: from 180 to 210
 - 4. The chance that it rains is 34%. What's the chance it doesn't rain?
 - 5. How much will you earn from an investment of \$2,500 at an interest rate of 2.8% after 6 years?