WARM UP

1)Principal = \$2,500 interest rate = 7% time = 10 years

MATH COURSE I

Simple Interest (2)

November 13, 2012

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VOCABULARY

<u>interest</u>: the amount of money charged for borrowing or using money

simple interest: a fixed percentage of the
principal I = prt

<u>principal</u>: the initial/original amount of money borrowed or saved

FORMULA

$$I = prt$$

SIMPLE INTEREST

$$I - $204, P = $1,700, r = ?, t = 6$$
 years

* Use a calculator

I = *Prt* \$204 = \$1,700 x r x 6

204 = 10,200 x r

\$204/10,200 = r

r = 0.02 = 2%

PRACTICE

I = \$600, P = \$2,000, r = ?, t = 3 years

PRACTICE

1)
$$I = ?$$
, $P = 750 , $r = 4\%$, $t = 3$ years

2) I = 120, P = ?,
$$r = 3\%$$
, t = 5 years

3) I = \$180, P = \$1500, r = ?, t = 2 years

MORE PRACTICE

1)
$$I = ?$$
, $P = 750 , $r = 4\%$, $t = 6$ months (0.5 years)

2) I = 120, P = ?, r = 3%, t = 18 months (1.5 years)

3) I = \$180, P = \$1500, r = ?, t = 2 years

INTEREST PAID

Video

P = Principal (amount **barrowed** or amount **deposited**)

1) Joe deposits \$8,000 dollars into a savings account which pays 6% simple interest annually. How long will it be before the total amount in his account is \$10,000?