MARCH 12, 2015 4TH

STARTER

You will need a calculator!!!

Find the percent change and indicate if it is an increase or decrease.

1. from 25 to 30

$\frac{5}{25} \times \frac{p}{100}$

$\frac{500}{25} = \frac{25p}{25}$

$p = 20\%$ inc

2. from 25 to 15

$\frac{10}{25} \times \frac{p}{100}$ $p = 40\%$ dec

$\frac{25p}{25} = \frac{1000}{25}$

3. from 120 to 36

$\frac{84}{120} \times \frac{p}{100}$ $p = 70\%$ dec

$\frac{120p}{120} = \frac{8400}{120}$

4. from 24 to 76

$\frac{52}{24} \times \frac{p}{100}$

$\frac{5200}{24} = \frac{24p}{24}$

$p = 216.7\%$ inc

3/12 - Simple Interest

What IS interest?

$ paid on $ loaned

$ earned on $ in the bank

$$I = prt$$

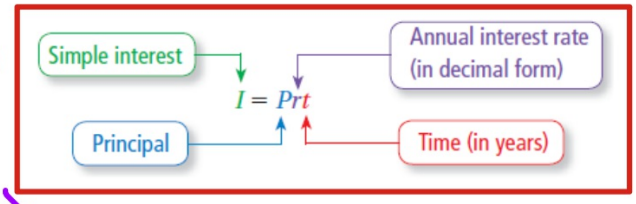
I = Interest

p = principle ($)

r = rate (% as a deci)

t = time (years)

$100 at 5% for 6 years



$I = prt$

$I = (100)(0.05)(6)$

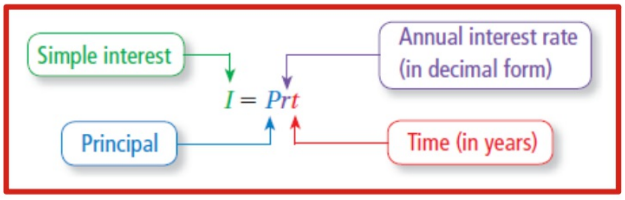
$= \$30$

100 × 0.05 × 6 = 30

Ending Balance:

$100
+ 30
$130

$4,800 at 14% for 4 years



$I = prt$

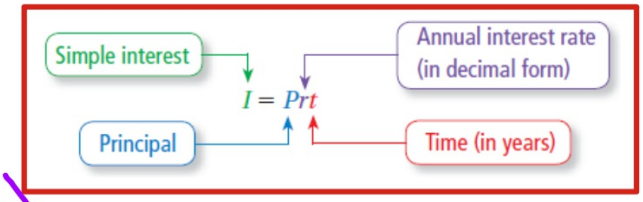
$= (4800)(.14)(4)$

$= \$2688$

4800 × 0.14 × 4 = 2688

$4800
+ 2688
$7488

$175 at 7% for 8 years



$I = prt$

$= (175)(.07)(8)$

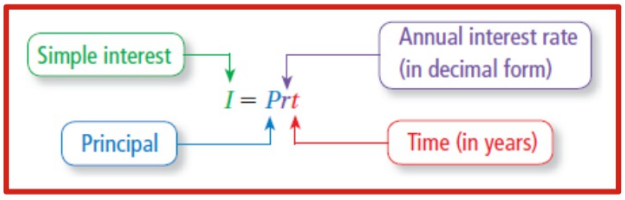
$= \$98$

175 × 0.07 × 8 = 98

$175
+98
$273

Ending Balance

$7,400 at 3% for 2 years



$$I = prt$$
$$= 7400(.03)2$$
$$= 444$$

7400 × 0.03 × 2 = 444

$$\$7400 + 444 = \boxed{\$7844}$$

HOMEWORK

Lilac WS 5

DUE Monday