

MARCH 12, 2015 ^{5TH} _{6TH}

STARTER

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

1. from 25 to 30

$$\frac{5 \cdot 4}{25 \cdot 4} = \frac{P}{100}$$

20% inc = P

2. from 25 to 15

$$\frac{10 \cdot 4}{25 \cdot 4} = \frac{P}{100}$$

40% dec = P

3/12 - Simple Interest

What IS interest?
\$ you earn from putting
your \$ in the bank



$$I = prt$$

Interest \rightarrow \$ earned

principle \rightarrow \$ you deposit

rate \rightarrow % as a decimal

time \rightarrow # of years

\$100 at 5% for 6 years

$$I = prt$$

$$= (100)(.05)(6)$$

\$ 30 earned

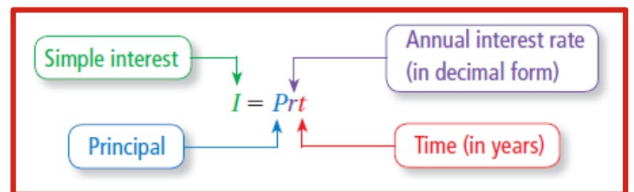
$$100 \times 0.05 \times 6 = 30$$

Ending Balance

\$100

+ 30

\$130

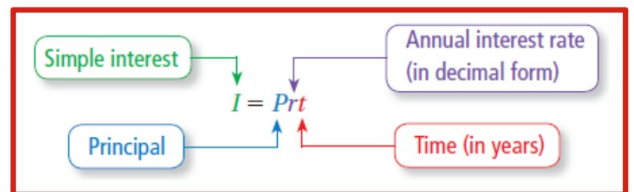


\$4,800 at 14% for 4 years

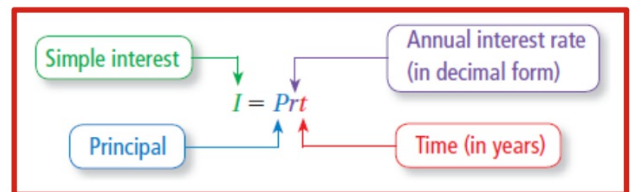
$$\begin{aligned} I &= prt \\ &= (4800)(.14)(4) \\ &= \$2688 \end{aligned}$$

$$4800 \times 0.14 \times 4 = 2688$$

$$\begin{array}{r} \$4800 \\ +2688 \\ \hline \boxed{\$7488} \end{array}$$



\$175 at 7% for 8 years

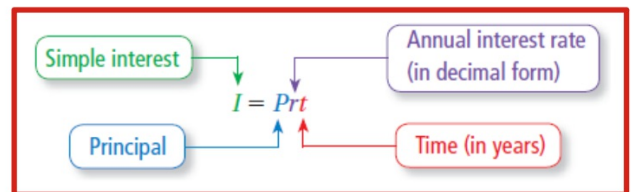


\$7,400 at 3% for 2 years

$$\begin{aligned} I &= prt \\ &= (7400)(.03)(2) \\ &= \$444 \end{aligned}$$

$$7400 \times 0.03 \times 2 = 444$$

$$\begin{array}{r} \$7400 \\ + 444 \\ \hline \$7844 \end{array}$$



HOMWORK

Lilac WS5

DUE Monday