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Name:

Símple Interest

Converting interest rate to decimal:

Show the interest rates as they would appear in the formula as r. (Divide by 100, or move decimal 2 spaces to the left)

a) 13%

b) 2.5%

0,005

Relating Units of Time

Remember that there are 365 days or 52 weeks or 12 months in 1 year. Express each as a fraction of a year.

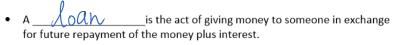
a. 26 weeks

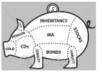
b. 8 months

c. 400 days

<u>36</u> 52

• An <u>INVESTMENT</u> is an item (real estate, coins, antiques, stocks, etc.) that is purchased with the hope that it will create income in the future.





• <u>Interest</u> is the amount of money earned on an investment or paid for a loan.

Simple interest is a quick method used to calculate the amount of money earned on an investment or charged on a loan.

SIMPLE INTEREST FORMULA:

I = Prt

I = interest

P = the principal (initial amount of investment/loan)

r = the interest rate, in decimal form

t =the length of time in years

To determine the total amount of an in setment/loan after interest is calculated and included, use:

A = P + I

A = total amount of investment/loan

or A=P+Pit

P = the principal (initial amount of investment/loan)

I = interest

Example 1

Calculate the simple interest and final amount of a \$675 investment a 7.25% over 2 years.

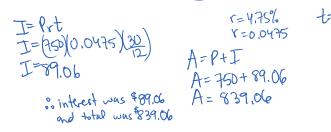
I=Prt I=(675)(0.0725)(2) I=97.88 A=P+I A=675+97.88 =772.88

interest only \$97.88 total investment after 2 yrs \$772.88

	_	_
ВΛ	ВΓ	2C1
IVI	DF	3C1

Name:		

Calculate the interest and final amount of a (750) investment at $4\frac{3}{4}\%$ over (30) months.



Example 3

Find the principal invested at 5% if after 10 years if it earned \$650 in interest. $P = \frac{2}{3}$

Example 4

Determine how long \$1000 was invested at 6.15% if at the end of the investment \$153.75 was earned.

. Principal was

$$T = Prt$$

$$|53.75 = |000(0.06|s)t$$

$$|53.75 = 61.5t$$

$$|61.5 = 61.5t$$

Example 5

What rate of simple interest is needed to get \$7000 to grow to \$10000 in 5 years?

