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Simple Interest

interest: money paid to an individual
or bank for using money



If you put money in the bank (savings account, etc.), the bank will pay you interest for letting them use your money.

If you borrow money from the bank, the bank will charge you interest for using their money.

principal: amount earning interest

rate: percent per year

time: how long it's borrowed or
stays in the bank

Simple Interest

$$I = prt$$

Interest = principal • rate • time

\$

%

YRS

as

decimal

**Ex: Find the interest on \$3,000
borrowed for 2 years at a rate of
0.08% / year.**

$$I = prt$$

$$I = 3,000 \times .08 \times 2$$

$$I = \boxed{\$480}$$

Ex: Savings of \$5,000 are invested for 4 years. This investment returns \$1,000 in interest. Find the rate of interest.

$$I = prt$$

$$1,000 = 5,000 \times r \times 4$$

$$\frac{1,000}{20,000} = \frac{\cancel{20,000} \times r}{\cancel{20,000}}$$

$$.05 = r$$

$$\boxed{5\%}$$

Ex: Peter borrows \$4,200 at an annual interest rate of 11.5%. The term of the loan is 36 months. (3 yr)
Find the interest and total amount due on the loan.

$$I = prt$$

$$I = 4,200 \times .115 \times 3$$

$$I = \$1,149$$

$$4200 + 1149 = \$5,649$$



Homework:

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