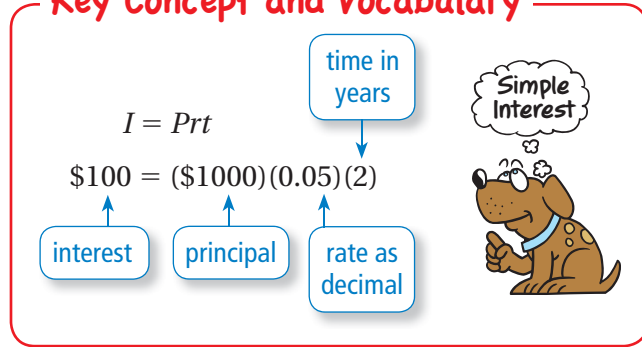


## REVIEW: Simple Interest

Name \_\_\_\_\_

### Key Concept and Vocabulary



### Visual Model

1 month	3 months	4 months
$t = \frac{1}{12}$	$t = \frac{1}{4}$	$t = \frac{1}{3}$
6 months	1 year	2 years
$t = \frac{1}{2}$	$t = 1$	$t = 2$

### Skill Examples

- $P = \$200$ ,  $r = 0.10$ ,  $t = 4$  years  
 $I = (200)(0.10)(4) = \$80$
- $P = \$250$ ,  $r = 0.04$ ,  $t = 0.5$  year  
 $I = (250)(0.04)(0.5) = \$5$
- $P = \$2000$ ,  $r = 0.05$ ,  $t = 20$  years  
 $I = (2000)(0.05)(20) = \$2000$

### Application Example

- You deposited \$500 in a savings account for 10 years. The account paid 6% simple interest. How much interest did you earn?

$$P = \$500, r = 0.06, t = 10 \text{ years}$$

$$I = (500)(0.06)(10) = \$300$$

- You earned \$300 in interest.

## PRACTICE MAKES PURR-FECT™



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Find the simple interest.

- Principal: \$400, Rate: 5%, Time: 3 years  
\_\_\_\_\_
- Principal: \$100, Rate: 3%, Time: 6 months  
\_\_\_\_\_
- Principal: \$1000, Rate: 2%, Time: 4 months  
\_\_\_\_\_
- Principal: \$250, Rate: 10%, Time: 6 months  
\_\_\_\_\_
- Principal: \$500, Rate: 8%, Time: 9 months  
\_\_\_\_\_
- Principal: \$600, Rate: 1%, Time: 8 years  
\_\_\_\_\_

In which savings account do you earn more simple interest?

- Deposit \$200 at 6% for 3 years.
  - Deposit \$200 at 8% for 18 months.  
\_\_\_\_\_
- Deposit \$1000 at 4% for 5 years.
  - Deposit \$1000 at 5% for 4 years.  
\_\_\_\_\_

- SAVINGS** You deposited \$600 in a savings account for 5 years. The account paid 4% simple interest. How much interest did you earn? \_\_\_\_\_
- LOAN** You borrowed \$1000 for 2 years. You are charged 5% simple interest. How much interest do you owe? \_\_\_\_\_