Interactive Study Guide		
6-6 Simple Interest		
Whether you save money or borrow money, interest is either paid or collected for the use of the money. One type of interest banks use is called simple interest . This is an amount paid only on the principal , or the original amount deposited or borrowed.		Vocabulary interest principal simple interest
Simple interest = principal \circ rate \circ time or $l = p \circ r \circ t$		
Using the Simple Interest Formula If $p = 450 , $r = 8.5\%$, and $t = 3$ years, find p .		
/=_•_•_	Write the formula.	
<i>l</i> = 450 • • 3	Write 8.5% as a decimal.	
<i>l</i> =	Find the product.	
The simple interest is		
Loan Application Ben borrows \$8,000 from the bank at 12% simple interest. The loan payoff is \$10,880. How long will it take for him to pay off the total amount?		
1. Understand the Problem		
What is the unknown?		
The principal is The interest rate is The total amount is		
2. Make a Plan		
Find the amount of simple interest by using the formula $A = _ + _$, where A is the		
total amount borrowed. Then use / = _ • _ • _ to find the amount of time.		
3. Solve		
= + /	What values do you substitute for $A = p + 1$? What amount do you subtract from each side?	
= /	I is equal to what number?	
2,880 = 8,000 • • t	Use $I = p \cdot r \cdot t$. Write 12% as a decimal.	
2,880 =t	Simplify the right side of the equation.	
_ = t	- Divide.	
4. Look Back		
After 3 years, Ben will have paid \$2,880 in interest for an \$8,000 loan, paying a total of \$10,880.		
<i>I</i> =• _ = 2,880	So, it will take to pay off the	e \$8,000 loan.

_____ Date ____ Class

Name