

# *I* = *prt* (Front)

	My Definition:	My Representation:
	My Definition:	My Representation:
p		
		1 1 1 1 1 1
	My Definition:	My Representation:
		1 1 1 1 1 1 1 1 1 1
	My Definition:	My Representation:
t		
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*I* = *prt* (Back)

## Interest

principal

rate

time



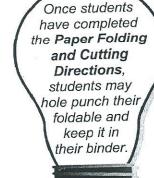
### **Application Problems Using Percents, Activity 5**

**Activity Objective** 

The student will define interest, principal, rate, and time.

#### **Materials**

- Paper Folding and Cutting Directions
- I = prt (copy two-sided, front to back)—one per student
- Scissors
- Colored pencils (optional)
- Hole punch (optional)
- Math dictionary (optional)



#### **Facilitation Questions**

- What are some situations where you have to pay interest? Answers may vary. Possible answers: car loan, home loan, credit card
- What are some situations where you earn interest? Answers may vary. Possible answers: saving account, annuity
- How could you represent the amount of money borrowed or invested with a picture? Answers may vary. Possible answer: I could draw a picture of the bank giving me money, and I give them an IOU.
- Which variable represents the amount of money you earn or pay? The amount of money you borrow or invest? The rate? The time? I represents the amount of money you earn or pay. p represents the amount of money you borrow or invest. r represents the interest rate. t represents the time in years.

#### Answers

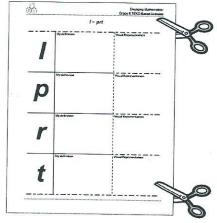
nswers				
Ans	wers may vary. Possible answer.	My Representation:		
1	My Definition: Interest is the amount of money earned if you invest money or the amount of money you owe if you borrow money.	I = prt  My Representation:		
p	My Definition: Principal is the amount of money you invest or the amount of money you borrow.	•9 • 9 • E • E • E • E • E • E • E • E •		
r	My Definition: The rate is the percent paid if money is invested during a given amount of time or the percent charged if money is borrowed during a given amount of time.	My Representation:  12% → 0.12		
t	My Definition: Time is the duration the money is invested or borrowed in years.	My Representation:		
	Ans	Answers may vary. Possible answer:  My Definition: Interest is the amount of money earned if you invest money or the amount of money you owe if you borrow money.  My Definition: Principal is the amount of money you invest or the amount of money you borrow.  My Definition: The rate is the percent paid if money is invested during a given amount of time or the percent charged if money is borrowed during a given amount of time.  My Definition: Time is the duration the money is invested or borrowed in		



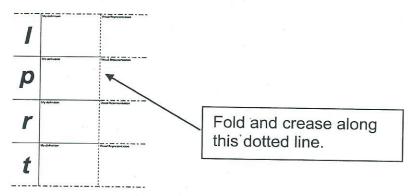
Student Name: \_\_\_\_\_ Date: \_\_\_\_

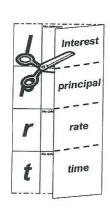
### **Paper Folding and Cutting Directions**

• Cut along the **bold** ( - • - • ) dotted lines on I = prt.



Fold and crease along the dotted line.





• Complete the My Definition and My Representation section for each vocabulary word.

### **Communicating About Mathematics**

Describe a situation where you could use the formula for simple interest.



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