Name	Date	
Skills Maintenance Variables and Proportions		
Activity 1		
Convert the percents to decimal	numbers.	
1. 75%	2 . 4%	
3 . 16%	4 . 55%	
5. 2%	6 . 85%	
Activity 2		
For each group of shapes, select	the two that are similar.	
 Which shapes are similar? (a) A and B (b) A and C (c) B and C 		
2 . Which shapes are similar?		

- (a) A and B
- (b) A and C
- (c) B and C

3. Which shapes are similar?

- (a) A and B
- (b) A and C
- (c) B and C





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Unit 2

Name	2 Date			2	
P T Sol var	Problem-S Translating I Ive the perce Tiables. You r	S olving Activi Percent Problem nt problems by si nay use a calcula	ty s ubstituting the value for th tor.	e	
1.	What is the D = discou	e discount on a \$.nt, <i>p</i> = percent c	500 TV that is 15% off? A off, <i>c</i> = cost	Answer	
	D ↓	= p ↓	• c ↓		
2.	What is the T = tax am	= e tax on a \$300 i nount, <i>r</i> = tax rat	• item at a tax rate of 7%? :e, c = cost	Answer	
	\downarrow	= r ↓ _	• c		
3.	What is a T = tip, r = T	 15% tip on a \$10 percent, <i>c</i> = cos = <i>r</i>	• O meal at a restaurant? • c • c	Answer	
4.	↓ How much I = interes	+ interest will you t, <i>r</i> = rate, a = ac	• earn on \$1,500 at 2%? ccount balance	Answer	
	\downarrow	$=$ r \downarrow \downarrow	• c ↓		
5.	 5. What is the discount on a \$250 item at 20% off? D = discount, p = percent off, c = cost 			Answer	
	$\stackrel{D}{\downarrow}$	= p ↓ =	• c ↓		
6.	How much T = tax, r =	tax will you pay = tax rate, <i>c</i> = co	for a \$75 item at a 6% rat st	ce. Answer	
	<i>T</i> ↓	= r ↓ =	• c ↓		

Name	Date



Problem-Solving Activity

Translating Percent Problems

Solve the percent problems. Remember to convert the percent to a decimal number before you multiply. You may use a calculator.

- 1. Everything in a department store is on sale for 10% off. Write an equation to describe the discount on a \$500 digital camera.
- 2. Roseanne has a coupon for 5% off her monthly phone bill. Write an equation to describe the discount on her \$175 bill.
- 3. The teacher promised the class bonus points for the semester. She would give each student a bonus of 10% of the total homework points for the semester. Write an equation that describes how many bonus points Bonnie will get if she earned 150 homework points during the semester.
- 4. The New Jax Band is donating 1% of all ticket sales from a concert tour to charity. Write an equation that describes how much they will donate to the charity if they sell \$1,500 in tickets.