Name		_Class	Date				
Practice			Using Variables				
Write an algebrai	c expression for each phrase						
1. 7 increased b	y x	2. <i>p</i> multiplied by	y 3				
3. 10 decreased by <i>m</i>		4. <i>n</i> less than 7					
5. the product of 2 and q		6. 3 more than <i>m</i>	6. 3 more than <i>m</i>				
Write a phrase fo	r each algebraic expression.						
7. $\frac{8}{a}$	8. <i>s</i> - 10	9. <i>x</i> + 13	10. <i>ab</i> + 2				
Define a variable	and write an algebraic expr	ession for each phrase.					
11. the difference of 8 and a number		12. the sum of 4 and a number					
13. the product of 2 and a number		14. 3 increased by a number					
15. 10 plus the quotient of a number and 15		16. 12 less than a	16. 12 less than a number				

Define a variable and write an algebraic equation to model each situation.

- **17.** What is the total cost of buying several shirts at \$24.95 each?
- **18.** The number of gal of water used to water trees is 30 times the number of trees.
- **19.** What is the amount of money in a bank containing only dimes?
- **20.** What is the number of marbles left in a 48-marble bag after some marbles have been given away?
- **21.** The total cost equals the price of the tickets multiplied by eight people.
- **22.** What is the cost of buying several pairs of pants at \$32.95 per pair?

Define variables and write an equation to model the relationship in each table.

23.	Number of Tickets	Total Cost	24.	Number of Hours	Distance Traveled	25.	Number of Hours	Total Pay
	2	\$7		1	55 mi		8	\$40
	4	\$14		3	165 mi		12	\$60
	6	\$21		5	275 mi		16	\$80
26.	Total Cost	Change From \$10	27.	Number of Days	Length	28.	Miles Traveled	Miles Remaining
	\$10.00	\$0		1	0.45 in.		0	500
	\$9.00	\$1.00		4	1.80 in.		125	375
	\$7.50	\$2.50		8	3.60 in.		350	150