


Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples		
Key Words & Phrases	<div>ADDITION +</div> <ul style="list-style-type: none">Summore thanincreased bytotalplusall together	<div>SUBTRACTION -</div> <ul style="list-style-type: none">differenceless than *Subtracted from *minusdecreased by	
	<div>MULTIPLICATION ●</div> <ul style="list-style-type: none">timesproducttwicedouble / tripleofper	<div>DIVISON /</div> <ul style="list-style-type: none">divided byquotienthalf / thirdseparate	
<div></div> <div>"TURN AROUND" Phrases</div>	<div>Watch out for subtraction!</div> <div>Phrases like <u>less than</u> and <u>subtracted from</u> indicate that you need to reverse the order!</div>		
Examples	Directions: Translate each expression.		
		Words	Expression
	1.	"five more than a number"	$x + 5$
	2.	"the quotient of a number and -2"	$\frac{x}{-2}$
	3.	"twice a number"	$2x$
	4.	"a number decreased by 7"	$x - 7$

	5.	"the product of a number and twelve"	$12x$
	6.	"three subtracted from a number"	$x - 3$
	7.	"earning \$15 per hour"	$15x$
	8.	"\$5 less than the cost of the ticket"	$x - 5$
	9.	"the sum of a number and 24"	$x + 24$
	10.	"50 markers divided among several students"	$\frac{50}{x}$
	11.	"two-fifths of a number"	$\frac{2}{5}x$
	12.	"half a number minus nineteen"	$\frac{1}{2}x - 19$
	13.	"11 less than the product of a number and -4"	$-4x - 11$
	14.	"the total of eight times a number and five"	$8x + 5$
	15.	"the difference of a number squared and 14"	$n^2 - 14$
	16.	"three-fourths of a number plus 17"	$\frac{3}{4}x + 17$
<p>Going Backwards...</p> <p>* Answers may vary.</p>	Directions: Write each expression in words.		
		Words	Expression
	17.	A number decreased by 9	$n - 9$
	18.	The quotient of a number + 8	$\frac{p}{8}$
	19.	The product of -5 + a number	$-5x$
	20.	A number increased by 10	$k + 10$
	21.	One-third of a number	$\frac{1}{3}m$
	22.	Half of a number minus 30	$\frac{a}{2} - 30$
	23.	One less than the product of -7 + a number	$-7n - 1$
	24.	The sum of twice a number and 13	$2y + 13$

Name: _____

Unit 2: Algebraic Expressions

Date: _____ Per: _____

Homework 1: Translating Expressions

**Directions:** Translate each expression.

1. "the product of a number and negative 8" $-8n$	2. "a number increased by thirty-five" $y + 35$
3. "two-fifths of a number" $\frac{2}{5}x$	4. "the quotient of a number and 4" $\frac{n}{4}$
5. "18 less than a number" $b - 18$	6. "24 hours per day" $24d$
7. "the total for parking and an admission ticket" $p + a$	8. "\$3 subtracted from the cost of book" $b - 3$
9. "the sum of twice a number and 15" $2w + 15$	10. "the difference of a number squared and 6" $p^2 - 6$
11. "half of a number decreased by 27" $\frac{1}{2}k - 27$	12. "10 more than a number divided by -8" $\frac{x}{-8} + 10$
13. "9 less than the square root of a number" $\sqrt{z} - 9$	14. "-4 times a number plus 29" $-4y + 29$
15. "25 decreased by the product of number and 3" $25 - 3n$	16. "7 points more than twice the number of points scored by the other team" $2t + 7$

Directions: Give two different ways to write each expression in words.

17. $\frac{x}{-7}$	(a) The quotient of a number and -7. (b) A number divided by -7.
18. $-4n$	(a) The product of -4 and a number. (b) -4 times a number
19. $\frac{k}{3} + 16$	(a) The sum of a number divided by 3 and 16. (b) One third a number increased by 16.
20. $2a - 18$	(a) 18 less than twice a number. (b) The difference of two times a number and 18.