

Name/Nombre: \_\_\_\_\_ Date/Fecha: \_\_\_\_\_

FCTG

## Translate verbal words/phrases into algebraic expressions

- ❖ Step 1: Assign a \_\_\_\_\_ to represent the \_\_\_\_\_.
- ❖ Step 2: Identify \_\_\_\_\_ that indicate (points out) \_\_\_\_\_.

OPERATION	KEY WORD/PHRASE	EXAMPLE	TRANSLATION
Addition ( + )	plus	A number plus three	$x + 3$
	more than	Ten more than a number	$x + 10$
	the sum of	The sum of a number and five	$x + 5$
	the total of	The total of six and some number	$6 + x$
	increased by	A number increased by two	$x + 2$
	added to	Eleven added to a number	$x + 11$
Subtraction ( - )	minus	A number minus seven	$x - 7$
	less than	Four less than a number	$x - 4$
	the difference of	The difference of a number and three	$x - 3$
	less	Nine less a number	$9 - x$
	decreased by	A number decreased by twelve	$x - 12$
	subtracted from	Six subtracted from a number	$x - 6$
Multiplication ( x )	times	Eight times a number	$8x$
	the product of	The product of fourteen and a number	$14x$
	twice, double	Twice a number; double a number	$2x$
	multiplied by	A number multiplied by negative six	$-6x$
	of	Three fourths of a number	$\frac{3}{4}x$
Division ( ÷ )	the quotient of	The quotient of a number and seven	$\frac{x}{7}$
	divided by	Ten divided by a number	$\frac{10}{x}$
	the ratio of	The ratio of a number to fifteen	$\frac{x}{15}$
Powers ( $x^n$ )	the square of; squared	The square of a number; a number squared	$x^2$
	the cube of; cubed	The cube of a number; a number cubed	$x^3$
Equals ( = )	equals	Seven less than a number equals ten.	$x - 7 = 10$
	is	Three times a number is negative six.	$3x = -6$
	is the same as	Eight is the same as twice a number.	$8 = 2x$
	yields	Twelve added to a number yields five.	$x + 12 = 5$
	amounts to	Nine less a number amounts to twenty.	$9 - x = 20$

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## DO NOW!

1. Translate each verbal phrase into an algebraic expression.

(1) The total of 5 and  $c$  \_\_\_\_\_

(2) 7 less than  $m$  \_\_\_\_\_

(3) 9 times a number decreased by four \_\_\_\_\_

(4) Two less than the quotient of 15 and a number \_\_\_\_\_

(5) The product of 8 and the difference of  $n$  and 3 \_\_\_\_\_

(6) The sum of 5 and product of 7 and  $x$  \_\_\_\_\_

(7) 3 more than quotient of 5 and  $a$  \_\_\_\_\_

(8) Five times the sum of six and a number \_\_\_\_\_

(9)  $y$  raised to the fourth power \_\_\_\_\_

(10) one half of the  $k$  to the third power \_\_\_\_\_

2. Match the verbal phrase on the left to the corresponding expression on the right. Put the letter for your answer in the answer column.

1. the sum of $x$ and 5	A. $x - 12$
2. the product of $n$ and 5	B. $8 - 5n$
3. 12 less than $x$	C. $x - 15$
4. the quotient of a number and 5	D. $2n + 2$
5. $x$ subtracted from 12	E. $15 - x$
6. 8 minus the product of 5 and $n$	F. $5n$
7. The sum of twice a number and 13	G. $2n - 13$
8. twice a number minus 13	H. $2n + 13$
9. 15 less than $x$	I. $x + 5$
10. $x$ subtracted from 15	J. $10a$
11. 2 more than twice a number	K. $\frac{x}{5}$
12. the product of $a$ and 10	L. $\frac{8}{x}$
13. the quotient of 8 and $x$	M. $12 - x$

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