

ALGEBRA 1

Chapter 1, Section 5

Translating Verbal Phrases

VOCABULARY:

<ul style="list-style-type: none"> • Verbal phrase –
<ul style="list-style-type: none"> • Verbal Sentence –
<ul style="list-style-type: none"> • Algebraic Model –

GOAL:

- Translate verbal phrases into algebraic expressions.

Operation	Verbal Phrase	Expression
Addition	The <i>sum</i> of six and a number x .	$6 + x$
	Eight <i>more than</i> a number y .	$y + 8$
	A number n <i>plus</i> five.	$n + 5$
	A number x <i>increased by</i> seven.	$x + 7$
Subtraction	The <i>difference</i> of five and a number y .	$5 - y$
	Four <i>less than</i> a number x .	$x - 4$
	Seven <i>minus</i> a number n .	$7 - n$
	A number n <i>decreased by</i> nine.	$n - 9$
Multiplication	The <i>product</i> of nine and a number x .	$9x$
	Ten <i>times</i> a number n .	$10n$
	A number y <i>multiplied by</i> three.	$3y$
Division	The <i>quotient</i> of a number n and 4.	$\frac{n}{4}$
	Seven <i>divided by</i> a number x .	$\frac{7}{x}$

GOAL:

- Translate verbal sentence into algebraic equations.

Operation	Verbal Sentence	Expression
Equality	The sum of six and a number x <i>is</i> twelve.	$6 + x = 12$
	Four less than a number x <i>is</i> ten.	$x - 4 = 10$
Inequality	Seven minus a number n <i>is less than</i> six.	$7 - n < 6$
	A number n decreased by nine <i>is less than or equal to</i> fourteen.	$n - 9 \leq 14$
	Ten times a number n <i>is greater than</i> nine.	$10n > 9$
	Seven divided by a number x <i>is greater than or equal to</i> twenty.	$\frac{7}{x} \geq 20$

Translating Phrases – write the verbal phrase as an algebraic expression.

Nine more than a number h .	
One half multiplied by a number k .	
Three more than half a number x .	
A number a increased by seven.	
The quotient of a number y and five.	
The product of four and a number p .	
Two cubed divided by a number f .	
The difference of ten and a number g .	
Five squared minus a number w .	
Fifteen less than a number d .	

Translating Sentences – write the verbal sentence as an equation or inequality.

Nine is greater than three times a number h .	
Twenty is the quotient of a number y and 3.5.	
The product of 14 and a number x is one.	
Five decreased by eight is four times y .	
A number q is equal to or greater than fifty.	
Nine less than the product of ten and a number d is eleven.	
Three times the quantity two less than a number x is ten.	