

Algebra 1 10/17

Warm Up IXL

Algebra 1

A.2

1-1 Variables and Expressions

I can write verbal expressions for algebraic expressions

Algebraic Expression

an expression that contains of operations and variables

Variables

are symbols used to represent unknown values

Term

a number, a variable, or a product/quotient of variables.

A piece of an expression

Factors

the quantities being multiplied in a multiplication expression

Product

the result of a multiplication expression

I can write verbal expressions for algebraic expression

Power

an expression containing a base and an exponent such as x^n

Exponent

the small number that tells how many times the base is used as a factor. In x^n it is the n

Base

the large number that holds up the exponent and is used as a factor. In x^n it is the x

Note: When no exponent is written it is understood to be 1

I can write verbal expressions for algebraic expression

Ex. 1 Write a verbal expression for each algebraic expression

A. $16u^2 - 3$

Sixteen times u to the second power
minus ~~three~~

B. $\frac{1}{2}a + \frac{6b}{7}$

One half times a plus six ^{times} b divided 7
by 7

Six b divide 7
 $\frac{6b}{7}$

I can write verbal expressions for algebraic expression

KeyConcept Translating Verbal to Algebraic Expressions	
Operation	Verbal Phrases
Addition	more than, sum, plus, increased by, added to
Subtraction	less than, subtracted from, difference, decreased by, minus
Multiplication	product of, multiplied by, times, of
Division	quotient of, divided by

Ex. 2 Write an algebraic expression for each verbal expression

A. A number t more than 6

$$6 + t$$

B. 10 less than the product of 7 and f

$$7f - 10$$

C. Two thirds of the volume v

$$\frac{2}{3} \cdot v \text{ or } \frac{2}{3}v$$

I can write verbal expressions for algebraic expression

Ex. 3 Mr. Martinez orders 250 key chains printed with his team's logo and 500 pencils printed with their Web address. Write an algebraic expression that represents the cost of the order.

$x = \text{cost key chains}$

$y = \text{cost pencils}$

$$T = 250x + 500y$$

I can write verbal expressions for algebraic expression

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