

1 - 1

Variables and Expressions

variables: symbols used to represent unspecified numbers

algebraic expression: one or more #'s or variables along with one or more operations

Examples:

$$5x, 2x+3$$

Special Rule of Multiplication:

$$3 \times 4$$

$$3 \cdot 4$$

$$3(4)$$

$$(3)4$$

$$(3)(4)$$

Write an algebraic expression for each verbal expression.

Ex: eight more than a number n

$$8 + n$$

Ex: 7 less than the product of 4 and a number x

$$4x - 7$$

Ex: one third of the size of the original area a

$$\frac{1}{3}a$$

power: X^n "X to the n^{th} power"

base: X

exponent: n

Ex: 3^4

Ex: $2^{\textcircled{2}}$ squared

Ex: $5^{\textcircled{3}}$ cubed

Write each expression algebraically.

Ex: the product of 7 and m to the fifth power

$$7m^5$$

Ex: the difference of 4 and x squared

$$4 - x^2$$

evaluate: find the value of
an expression

Ex: Evaluate 2^5 .

$$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 = 32$$

Ex: Evaluate 4^3 .

$$4 \cdot 4 \cdot 4 = 64$$

Write a verbal expression for each algebraic expression.

Ex: $4m^3$

SUM

Ex: $c^2 + 21d$

Telepictionary Activity

Ms. Corken will divide you into groups. This will help you practice switching back and forth between algebraic expressions and verbal expressions.



Homework:

p. 8 #11-28, 31-35