Variables, Algebraic Expressions, and Equations

A **variable** is _____.

An **expression** _____.

An **equation** _____.

Evaluate the following expressions for x=2, y=5, and z=3:

Example 1:   Example 2:   Example 3:   Example 4:

$7 + 3z$ $y^3 - z$ $6 + \dfrac{3x}{z}$ $(4y + 3z)^2$

Translate the following into variable expressions:

Example 5: A number less thirty

Example 6: A number times twenty

Example 7: The quotient of twenty and a number, decreased by three

Example 8: Twenty subtracted from twice a number

Example 9: The product of a number and 7

Example 10: Twenty decreased by twice a number