

### Basics

Variable - In simple terms a number holder. a number that can change

#### Evaluating Expressions

To evaluate an expression you have to substitute a number into each variable and solve the expression.

Exa.

Evaluate expression where  $t = 1$   $b = 8$

$$t + 5b$$

$$(1) + 5(8)$$

$$1 + 40$$

$$41$$

#### Dependent and Independent Variables

Dependent variable - A variable where its value is determined by the independent variable.

Independent variable - A variable that doesn't have its value changed

In the equation  $y = 6x$   $x$  is the independent and  $y$  is the dependent

### Combining Like terms

Term - a number, variable, or the product of a variable and number.

Terms are usually separated by a + or - sign.

In a term that has a variable the number that that variable is being multiplied by is called the coefficient.

When combining terms with the same variable (known as like terms) add/subtract the coefficient.

$$2x + 5x = 7x$$

### Equations

Equation - expression that has at least one variable, one number and an equal sign



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Page 1 of 1.

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