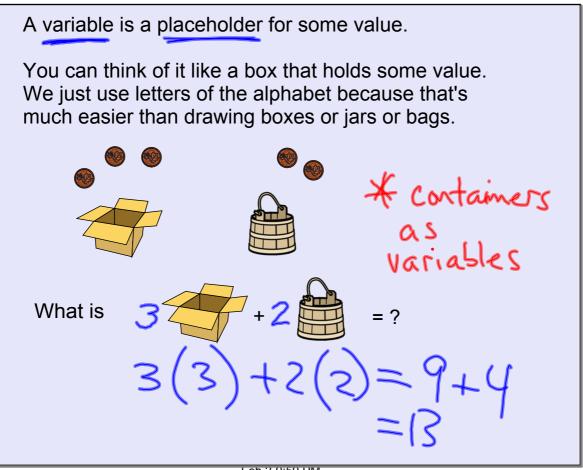
Feb 3/2010

Review - Part 2

Algebraic Expressions

Solving Equations

Jan 31-2:27 PM



A variable is a placeholder for some value. To evaluate an expression with variables, substitute a given number in place of the variable.

if
$$x = -2$$
 and $y = 3$ then
$$2x^{2} - y = 2(-2)^{2} - (3)$$

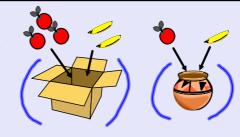
$$= 2(-2)(-2) - 3$$

$$= 8 - 3$$

Feb 2-9:53 PM

To simplify an expression:

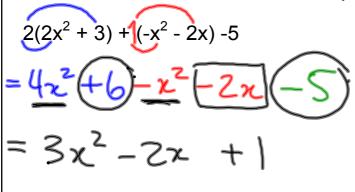
- 1. Expand any brackets
- 2. Collect like terms



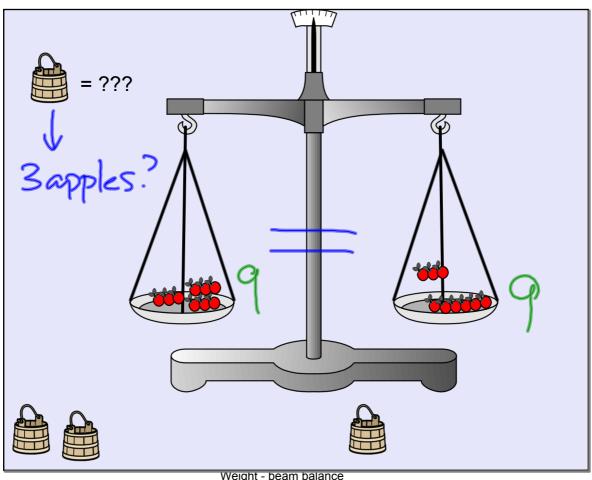


To simplify an expression:

- 1. Expand any brackets
- 2. Collect like terms
- Use the distributive property to multiply a single term into a bracket.
- Like Terms have the same variables, and matching variables have the same exponent.



Feb 2-9:48 PM



Weight - beam balance

An <u>equation</u> has an <u>expression</u> on each side of an equal sign.

To <u>solve</u> an equation, find the value that makes the left side (LS) equal to the right side (RS). This value is called the <u>solution</u> or <u>root</u> of the equation.

*Isolate the variable *

(a)
$$2x + 3 = 4x + 6$$
 $-2x - 3 = -2x - 3$
 $2x = 3$

(b) $y + 6(y - 3) = 2(3y - 2)$
 $y + 6y - 18 = 6y - 4$
 $y - 18 = 6y - 4$

Feb 2-10:18 PM

Assigned Work:

(odd letters only)

p.19 # 1, 2, 3, 5

p.22 # 4 - 7

p.23 # 1 - 4