

1.1 Translating Algebraic Equations

KEYWORDS:

\Rightarrow equals, is, equivalent, result, same as

Look for keywords like sum, difference,
and result to indicate: parentheses.

Examples:

1. Five times x plus ten equals 60.

$$5x + 10 = 60$$

2. Six less than twice y is 4.

$$2y - 6 = 4$$

3. Three times the sum of a and b is equivalent
to a plus 15.

$$3(a+b) = a+15$$

4. The square of m increased by twelve times the
cube of n is 45.

$$m^2 + 12n^3 = 45$$

5. Twice a number decreased by the square root of
the number is 20.

let $x = \text{number}$

$$2x - \sqrt{x} = 20$$

6. Fifteen less than twice the difference of a number
and three is seven.

let $x = \text{number}$

$$2(x-3) - 15 = 7$$

HOMEWORK:

Worksheet - HW

Translating Equations