Name:

Date:

Lesson 3.1.3 (Pt. 1) Homework

* **3-23.** Find the value of x that makes each equation below true.
	1. x + 7 = 2
	2. −5 = x
	3. 3x = −45
	4. 2 = −x
	5. 
	6. x2 = 9 (all possible values for x)
*

**3-24.** For the following equations, draw a picture of the tiles on an equation mat, simplify, and solve for the variable. Record your work.

* 1. 3c − 7 = −c + 1
	2. −2 + 3x = 2x + 6 + x

**3-25.** On your paper, write the equation represented to the right. Simplify as much as possible and then solve for x.

**3-26**.Solve by defining a variable and solving an equation.  Write your solution in a sentence.

West High School’s population is 250 students fewer than twice the population of East High School.  The two schools have a total of 2858 students.  How many students attend East High School?

**3-27.**Calculate the following values using the Order of Operations.  Show your steps.  Verify your answers with your calculator.

* 1. (−4)(−2) − 6(2 − 5)
	2. 23 − (17 − 3 · 4)2 + 6
	3. 14(2 + 3 − 2 · 2) ÷ (42 − 32)
	4. 12.7 − 18.5 + 15 + 6.3 − 1 + 28.5