Name:

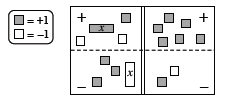
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Lesson 3.1.3 (Pt. 1) Homework

* **3-23.** Find the value of x that makes each equation below true.
  1. x + 7 = 2
  2. −5 = 1/2xx
  3. 3x = −45
  4. 2 = −x
  5. x/2
  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