HW CPM 3.1.3 8CP

- **3-23.** Find the value of x that makes each equation below true.

  a. $x + 7 = 2$

  b. $-5 = \frac{1}{2}x$

  c. $3x = -45$
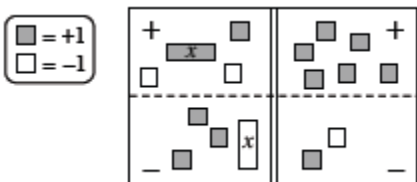
  d. $2 = -x$

  e. $-5 = \frac{x}{2}$

  f. $x^2 = 9$ (*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.

  . a. $3c - 7 = -c + 1$ b. $-2 + 3x = 2x + 6 + x$

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

- **3-26.** Solve this problem 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?