Name:

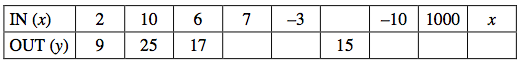
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Lesson 4.1.2 Homework

* **4-17.** Simplify each of the following equations and solve for *x*. Show all work and check your solution.
  1. 7 − 3*x* = −*x* + 1
  2. −2 + 3*x* = −(*x* + 6)

**4-18.** Leala can write a 500-word essay in an hour. If she writes an essay in 10 minutes, approximately how many words do you think the essay contains?

**4-19.** Complete the table below.



* 1. Explain in words what is done to the input value (*x*) to produce the output value (*y*).

* 1. Write the rule you described in part (a) with algebraic symbols.

**4-20.** When Susan’s brother went to college, she and her two sisters evenly divided his belongings. Among his possessions were 3 posters, 216 books, and 24 CDs. How were these items divided?

**4-21.** Kelso’s mom wants to put a floating blanket over the family’s circular wading pool to keep the heat in and the leaves out. The pool has a diameter of 10 feet.

* 1. How many square feet of blanket will Kelso’s mother need?
  2. If the pool supply store charges $0.10 per square foot for the blanket, how much will the material for the blanket cost?