Lesson 1 Practice Problems
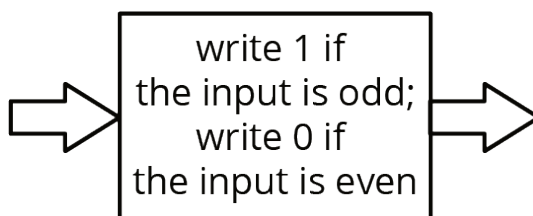
1. Given the rule:

divide by 4,
then add 2
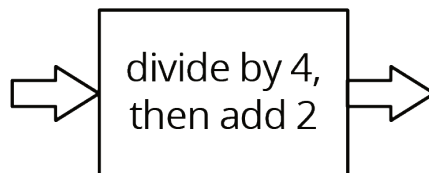
Complete the table for the function rule for the following input values:

input	0	2	4	6	8	10
output						

2. Here is an input-output rule:

write 1 if
the input is odd;
write 0 if
the input is even

Complete the table for the input-output rule:

input	-3	-2	-1	0	1	2	3
output							

3. Andre's school orders some new supplies for the chemistry lab. The online store shows a pack of 10 test tubes costs $4 less than a set of nested beakers. In order to fully equip the lab, the school orders 12 sets of beakers and 8 packs of test tubes.

    a. Write an equation that shows the cost of a pack of test tubes, t, in terms of the cost of a set of beakers, b.

    b. The school office receives a bill for the supplies in the amount of $348. Write an equation with t and b that describes this situation.

    c. Since t is in terms of b from the first equation, this expression can be substituted into the second equation where t appears. Write an equation that shows this substitution.

    d. Solve the equation for b.

    e. How much did the school pay for a set of beakers? For a pack of test tubes?

(From Unit 5, Lesson 16.)

4. Solve: $\begin{cases} y = x - 4 \\ y = 6x - 10 \end{cases}$

(From Unit 5, Lesson 15.)

5. For what value of x do the expressions $2x + 3$ and $3x - 6$ have the same value?

(From Unit 4, Lesson 17.)

Accelerated 7 Unit 6

Lesson 1

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