### Lesson 1 Practice Problems

1. Given the rule:
* 
* Complete the table for the function rule for the following input values:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| * input
 | * 0
 | * 2
 | * 4
 | * 6
 | * 8
 | * 10
 |
| * output
 |  |  |  |  |  |  |

1. Here is an input-output rule:
* 
* Complete the table for the input-output rule:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| * input
 | * -3
 | * -2
 | * -1
 | * 0
 | * 1
 | * 2
 | * 3
 |
| * output
 |  |  |  |  |  |  |  |

1. 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.
	1. Write an equation that shows the cost of a pack of test tubes, $t$, in terms of the cost of a set of beakers, $b$.
	2. 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.
	3. 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.
	4. Solve the equation for $b$.
	5. How much did the school pay for a set of beakers? For a pack of test tubes?
* (From Unit 4, Lesson 15.)
1. Solve: $\left\{\begin{matrix}y=x−4\\y=6x−10\end{matrix}\right.$
* (From Unit 4, Lesson 14.)
1. For what value of $x$ do the expressions $2x+3$ and $3x−6$ have the same value?
* (From Unit 4, Lesson 9.)



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