### Lesson 2 Practice Problems

1. Here are several function rules. Calculate the output for each rule when you use -6 as the input.
* 
1. A group of students is timed while sprinting 100 meters. Each student’s speed can be found by dividing 100 m by their time. Is each statement true or false? Explain your reasoning.
	1. Speed is a function of time.
	2. Time is a function of distance.
	3. Speed is a function of number of students racing.
	4. Time is a function of speed.
2. Diego’s history teacher writes a test for the class with 26 questions. The test is worth 123 points and has two types of questions: multiple choice worth 3 points each, and essays worth 8 points each. How many essay questions are on the test? Explain or show your reasoning.
*
* (From Unit 5, Lesson 16.)
1. These tables correspond to inputs and outputs. Which of these input and output tables could represent a function rule, and which ones could not? Explain or show your reasoning.
* Table A:

| * input
 | * output
 |
| --- | --- |
| * -2
 | * 4
 |
| * -1
 | * 1
 |
| * 0
 | * 0
 |
| * 1
 | * 1
 |
| * 2
 | * 4
 |

* Table B:

| * input
 | * output
 |
| --- | --- |
| * 4
 | * -2
 |
| * 1
 | * -1
 |
| * 0
 | * 0
 |
| * 1
 | * 1
 |
| * 4
 | * 2
 |

* Table C:

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

* Table D:

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



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