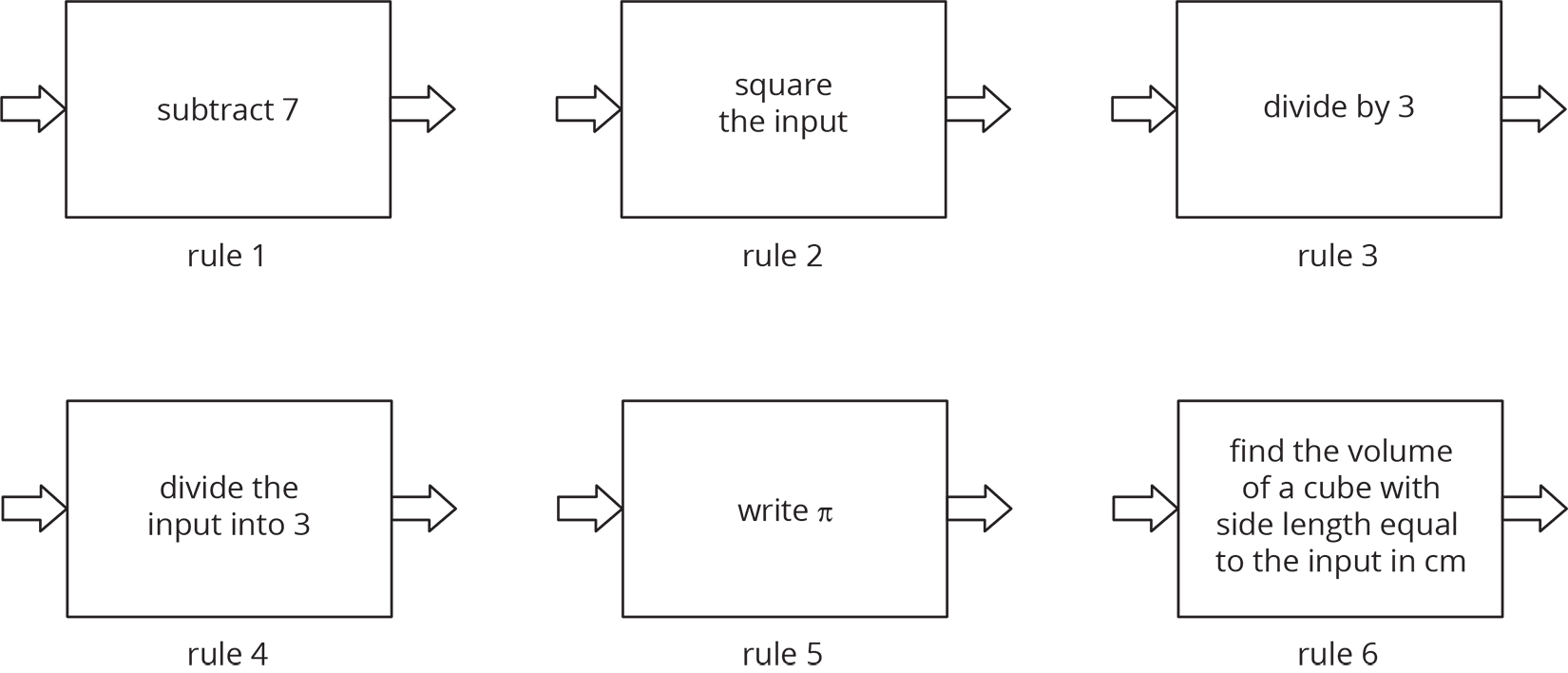
## Unit 6 Lesson 2 Cumulative Practice Problems

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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