

Unit 6 Lesson 1: Inputs and Outputs

1 Dividing by 0 (Warm up)

Student Task Statement

Study the statements carefully.

- $12 \div 3 = 4$ because $12 = 4 \cdot 3$
- $6 \div 0 = x$ because $6 = x \cdot 0$

What value can be used in place of x to create true statements? Explain your reasoning.

2 Guess My Rule

Student Task Statement

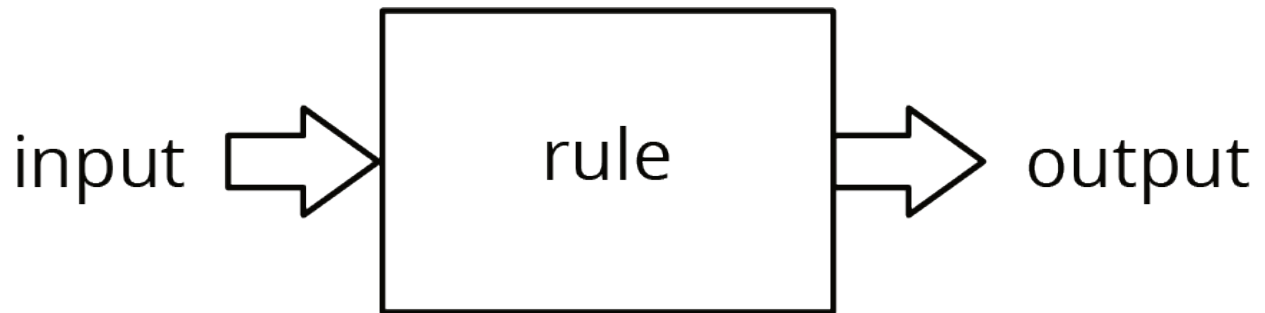
Keep the rule cards face down. Decide who will go first.

1. Player 1 picks up a card and silently reads the rule without showing it to Player 2.
2. Player 2 chooses an integer and asks Player 1 for the result of applying the rule to that number.
3. Player 1 gives the result, without saying how they got it.
4. Keep going until Player 2 correctly guesses the rule.

After each round, the players switch roles.

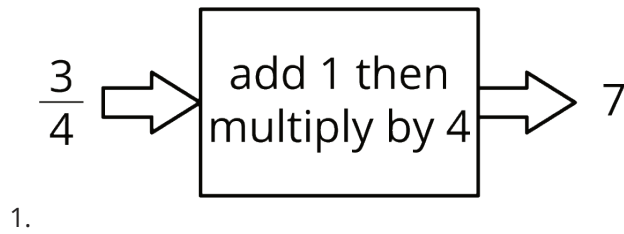
3 Making Tables

Images for Launch

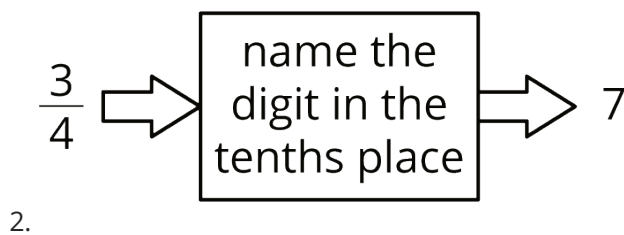


Student Task Statement

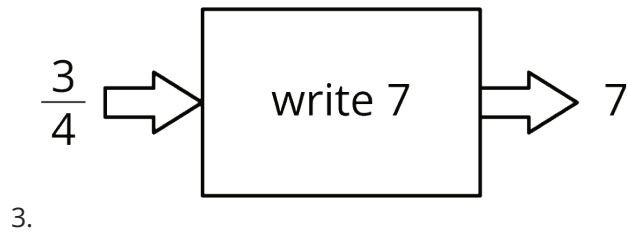
For each input-output rule, fill in the table with the outputs that go with a given input. Add two more input-output pairs to the table.



input	output
$\frac{3}{4}$	7
2.35	
42	

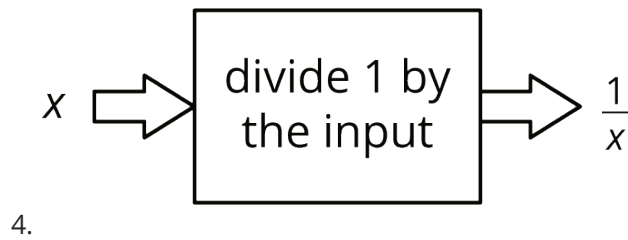


input	output
$\frac{3}{4}$	7
2.35	
42	



input	output
$\frac{3}{4}$	7
2.35	
42	

Pause here until your teacher directs you to the last rule.



input	output
$\frac{3}{7}$	$\frac{7}{3}$
1	
0	

Activity Synthesis

