NAME

DATE

Module 9 Using Functions
Lesson 3 Writing Functions from Patterns

guided
practice

Set 1

1. Javier has designed a simple robot that can pick up blocks and stack them in groups. The table shows how many blocks the robot can stack in a given time period.

Input	Output
Number of Minutes Stacking	Number of Blocks Stacked
1	1
2	2
8	8

Write a function to represent the pattern and use it to find how many blocks the robot can stack in 19 minutes.

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2. Write a function for the pattern shown in the table. _____

Input	Output
0	1
1	$1\frac{1}{4}$
2	$1\frac{1}{2}$
3	$1\frac{3}{4}$

3. Write a function for the pattern shown in the table. _____

Input	Output
−4	−13
−1	−4
3	8
7	20

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4. Find a function that contains the following ordered pairs:
(0, –11), (1, –7), (2, –3), (3, 1)

_____

5. Find a function that contains the following ordered pairs:
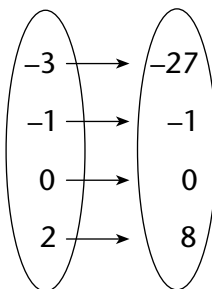(–1, –1.5), (–2, –0.5), (–3, 0.5), (–4, 1.5)

_____

Set 2

1. Write a function for the input/output table.

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Input	Output
–5	5
–1	1
3	3
7	7

2. Write a function for the input/output table.

_____

Input	Output
–4	$-\frac{1}{4}$
1	1
3	$\frac{1}{3}$
8	$\frac{1}{8}$

3. Write a function for the given mapping.

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4. Write a function for the given mapping.

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