STAPLE

Name _____ $Score: \frac{}{5}$

Gillespie

Course 1: Learning Check Ch6b

Multiple Representations

Directions: When working each of the following questions, be sure to show all work.

1)

$Input\ (x)$	$5x + 3$	$Output\ (y)$
6		
4		
2		?

2)

$Input\ (x)$	$\frac{1}{2}x - 11$	$Output\ (y)$
2		
4		?
6		

3)

$Input\ (x)$	10	9	8	7	6
$Output\ (y)$	-1	-2	-3	-4	?

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4) Write an equation to represent the relationship between the independent and dependent quantities.

a) $y = \frac{x}{2}$

b) $y = x - 4$

c) $y = x + 4$

d) $y = 4 + x$

$Input\ (x)$	-8	-5	-2	1	4
$Output\ (y)$	-4	-1	2	5	8

5) Emma has a $10 check she received from her sister for her birthday and some money in her bank account. She has the money to make a purchase of $10 more than the amount in her bank account. Write an equation to find the total amount y Emma can spend and the amount x she has in her bank account.

a) $y = x + 10$

b) $y = x - 10$

c) $y = x + 20$

d) $y = x - 20$

$Amount\ in\ Bank\ (x)$	20	30	40	50
$Total\ Amount\ Emma\ can\ Spend\ (y)$	30	40	50	60

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6) An adult manatee eats approximately 100 pounds of acuatic food per day. Write an equation to find y, the number of pounds of food an adult manatee can eat in x days

a) $y = 100 + x$

b) $y = 100x$

c) $y = \frac{100}{x}$

d) $y = \frac{x}{100}$

Input (x)	500	400	300	200	100
Output (y)	5	4	3	2	1