\$ ³
ELT
Gillespie

Name _____ Score: $\frac{1}{5}$

Course 1: Learning Check Ch6c Multiple Representations

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

1)

Input (x)	12x - 2	Output (y)
7		
6		
5		?

2)

Input (x)	$\frac{1}{2}x + 12$	Output (y)
14		
26		?
38		

3)

Input (x)	5	4	3	2	1
Output (y)	-4	-6	-8	-10	?

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

a)
$$y = \frac{x}{3}$$

b)
$$y = \frac{x}{4}$$

c)
$$y = \frac{3}{x}$$

d)
$$y = \frac{4}{x}$$

Input (x)	-12	-9	-6	1	12
Output (y)	-4	-3	-2	$\frac{1}{3}$	4

5) Emma has a \$15 check she received from her sister for her birthday and some money in her bank account. She has enough money to make a purchase of \$15 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)
$$y = 2x$$

b)
$$y = x + 2x$$

c)
$$y = x + 15$$

d)
$$y = x + 30$$

Amount in Bank (x)	15	30	60	120
Total Amount Emma can Spend (y)	30	45	75	135

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6) An adult elephant eats approximately 400 pounds of food per day. Write an equation to find y, the number of pounds of food an adult elephant can eat in x days

a)
$$y = \frac{x}{200}$$

b)
$$y = \frac{x}{5}$$

c)
$$y = \frac{2000}{x}$$

d)
$$y = \frac{x}{400}$$

Input (x)	2000	1600	1200	800	400
Output (y)	5	4	3	2	1