STAPLE

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

Gillespie

Course 3: Learning Check Ch3a

Proportional Relationships and Slope

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

1) Determine the constant rate of change between *x* and *y* in this table.

a) $\$0.25\ per\ bottle$

b) $\$0.50\ per\ bottle$

c) $\$0.75\ per\ bottle$

d) $\$3.25\ per\ 2\ bottles$

$\#\ of\ bottles$	3	6	9
$cost\ (\$)$	3.25	5.50	7.75

2) Determine the constant rate of change between *x* and *y* in this table.

a) $\$8\ every\ 2\ hours$

b) $\$7\ per\ hour$

c) $\$8\ per\ hour$

d) $\$9\ per\ hour$

$time\ (hours)$	$charge\ (\$)$
1	7
2	16
3	25
4	34

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3) Determine the constant rate of change between *x* and *y* in this table.

a) $-9\ gallons\ per\ hour$

b) $-18\ gallons\ per\ hour$

c) $-59.5\ gallons\ per\ hour$

d) $-119\ gallons\ per\ 2\ hours$

$time\ (hours)$	$H_2O(gallons)$
2	119
4	101
6	83
8	65

4) Find the slope of the line passing through $(4,-3)$ and $(2,4)$.

a) 3

b) -3.5

c) 3.5

d) -3

5) Find the slope of the line that passes through $(1,1)$ and$(-3,-5)$.

a) $-\frac{3}{2}$

b) $-\frac{2}{3}$

c) $\frac{2}{3}$

d) $\frac{3}{2}$