STAPLE

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

Gillespie
Course 3: Gauge Ch3c
Proportional Relationships and Slope

This assignment is a gauge and will not be graded

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

$hint: \frac{change\ in\ y}{change\ in\ x}$

$\#\ of\ batches (x)$	1	2	3
$cups\ of sugar\ (y)$	2.35	4.70	7.05

a) $1\ cup\ per\ batch$

b) $2.35\ cups\ per\ batch$

c) $3.25\ cups\ per\ batch$

d) $4.5\ cups\ per\ batch$

2) Find the slope of the line that passes through $(4, 2)$ and $(1, 3)$.

a) $\frac{5}{5}$

b) $-\frac{1}{3}$

c) $\frac{3}{5}$

d) 1

3) Find the slope of the line that passes through $(-1, -2)$ and $(3, 1)$.

a) $-\frac{3}{4}$

b) $-\frac{1}{2}$

c) $\frac{3}{4}$

d) $\frac{4}{3}$

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4) Determine the slope (aka constant rate of change) of this line.

$hint: choose\ two\ points\ to\ find\ slope = \frac{rise}{run} \rightarrow \frac{change\ in\ y}{change\ in\ x} \rightarrow \frac{y_2 - y_1}{x_2 - x_1}$

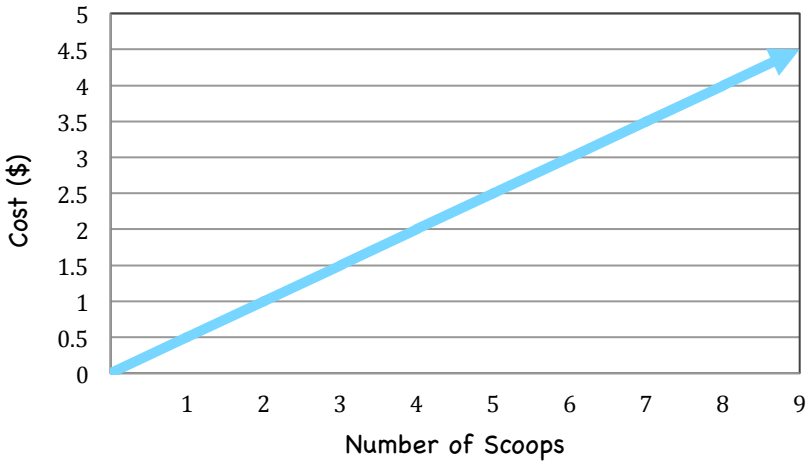
# of scoops (x)	cost, \$ (y)
x_2	y_2
x_1	y_1

a) \$0.50 *per scoop*

b) \$1.00 *per scoop*

c) \$1.50 *per scoop*

d) \$2.00 *per scoop*



5) Determine whether the data set shows direct variation.

$hint: y = kx$

$time; min(x)$	4	8	12	16
$distance; mi\ (y)$	12	24	36	48

a) *no*

b) *no there isn't a constant of variation*

c) *yes*; $y = 3x$

d) *yes*; $y = \frac{1}{3}x$