KEY

First Name:_____ Last Name:_____

L39 – FQ – 7.3 Slope-Point Form

Use the following information to answer Q1-Q4:

$x_1\ y_1 \quad x_2\ y_2$

A line passes through the points (2,3) and (6,5)

Q1: In ***Slope-Point Form***, the line can be represented by the equation $(y - a) = \frac{b}{c}(x - d)$, where ***a, b, c,*** and ***d*** are ___, ___, ___, and ___.

*(Record your **four digit** answer in the Numerical Response boxes below)*

5	1	2	6

or

3	1	2	2

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-3}{6-2} = \frac{2}{4} = \frac{1}{2}$

Option #1

$(y - y_1) = m(x - x_1)$

$(y - 5) = \frac{1}{2}(x - 6)$

abcd = 5126

Option #2

$(y - y_1) = m(x - x_1)$

$(y - 3) = \frac{1}{2}(x - 2)$

abcd = 3122

Q2: In ***Slope y-Intercept Form***, the line can be represented by the equation $y = \frac{e}{f}x + g$, where ***e, f,*** and ***g*** are ___, ___, and ___.

*(Record your **four digit** answer in the Numerical Response boxes below)*

1	2	2	

$(y-5) = \frac{1}{2}(x-6)$

$y - 5 = \frac{1}{2}x - 3$

$+5 \qquad +5$

$y = \frac{1}{2}x + 2$

efg = 122

or

$(y-3) = \frac{1}{2}(x-2)$

$y - 3 = \frac{1}{2}x - 1$

$+3 \qquad +3$

$y = \frac{1}{2}x + 2$

efg = 122

KEY

Use the following information to answer Q1-Q4:

A line passes through the points (2,3) and (6,5)

Q3: In ***General Form***, the line can be represented by the equation $Ax - By + C = 0$, where ***A, B,*** and ***C*** are ___, ___, and ___.

*(Record your **three digit** answer in the Numerical Response boxes below)*

1	2	4	

$y = \frac{1}{2}x + 2$

$-y \quad -y$

$0 = \frac{1}{2}x - 1y + 2$

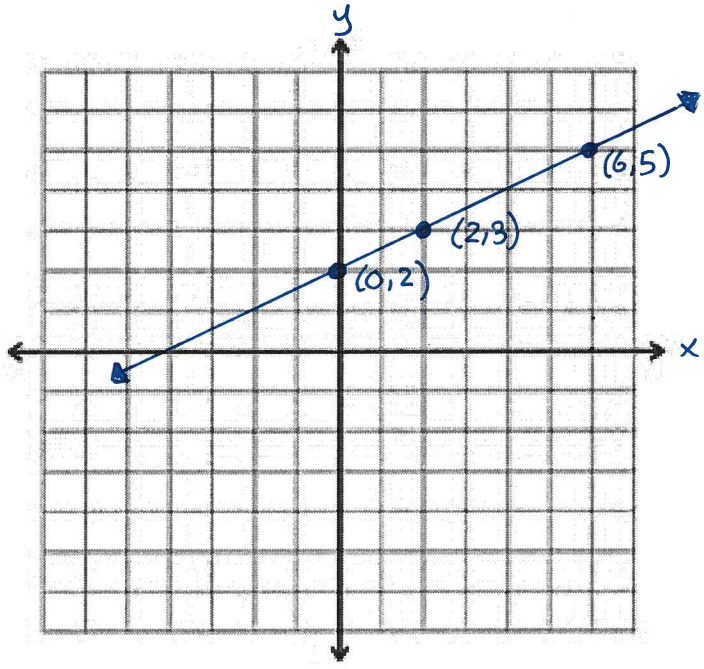
$\times 2 \quad \times 2 \quad \times 2 \quad \times 2$

$0 = 1x - 2y + 4$

$1x - 2y + 4 = 0$

$ABC = 124$

Q4: Graph the line, showing all relevant data points.



MARKING:

Beginning	0.0 – 1.5
Progressing	2.0 – 2.5
Competent	3.0 – 3.5
Exemplary	4.0