

Name \_\_\_\_\_

Date \_\_\_\_\_

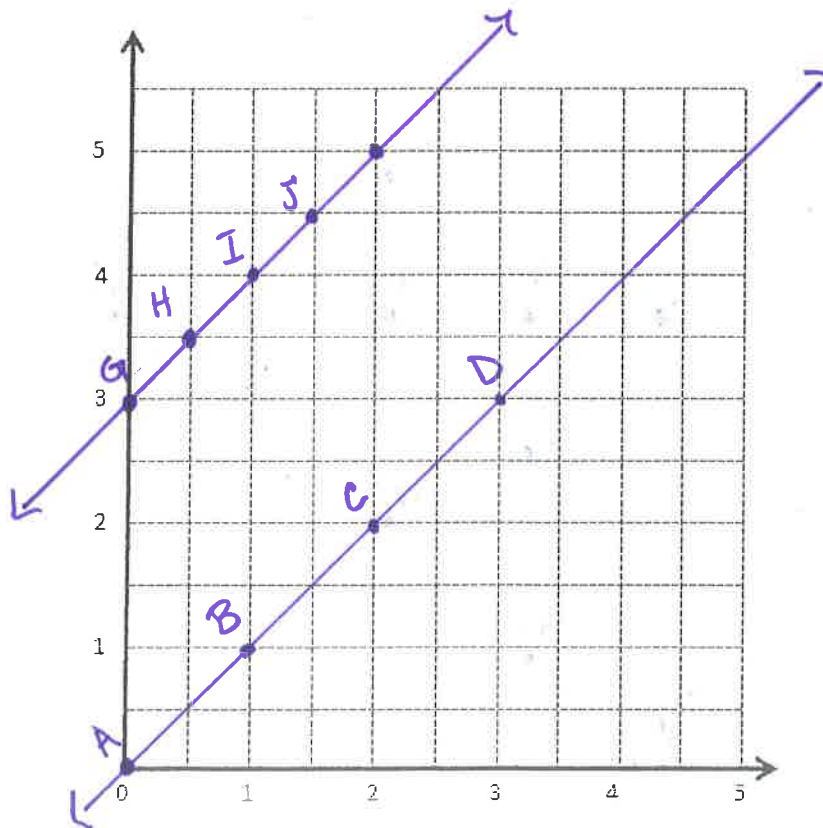
1.

a.

Point	$x$	$y$	$(x, y)$
A	0	0	(0, 0)
B	1	1	(1, 1)
C	2	2	(2, 2)
D	3	3	(3, 3)

b.

Point	$x$	$y$	$(x, y)$
G	0	3	(0, 3)
H	$\frac{1}{2}$	$3\frac{1}{2}$	$(\frac{1}{2}, 3\frac{1}{2})$
I	1	4	(1, 4)
J	$1\frac{1}{2}$	$4\frac{1}{2}$	$(1\frac{1}{2}, 4\frac{1}{2})$



coordinate plane

2.

a. *y* is always 3

Point	( <i>x</i> , <i>y</i> )
<i>L</i>	(0, 3)
<i>M</i>	(2, 3)
<i>N</i>	(4, 3)

b. *y* is *x* times 2

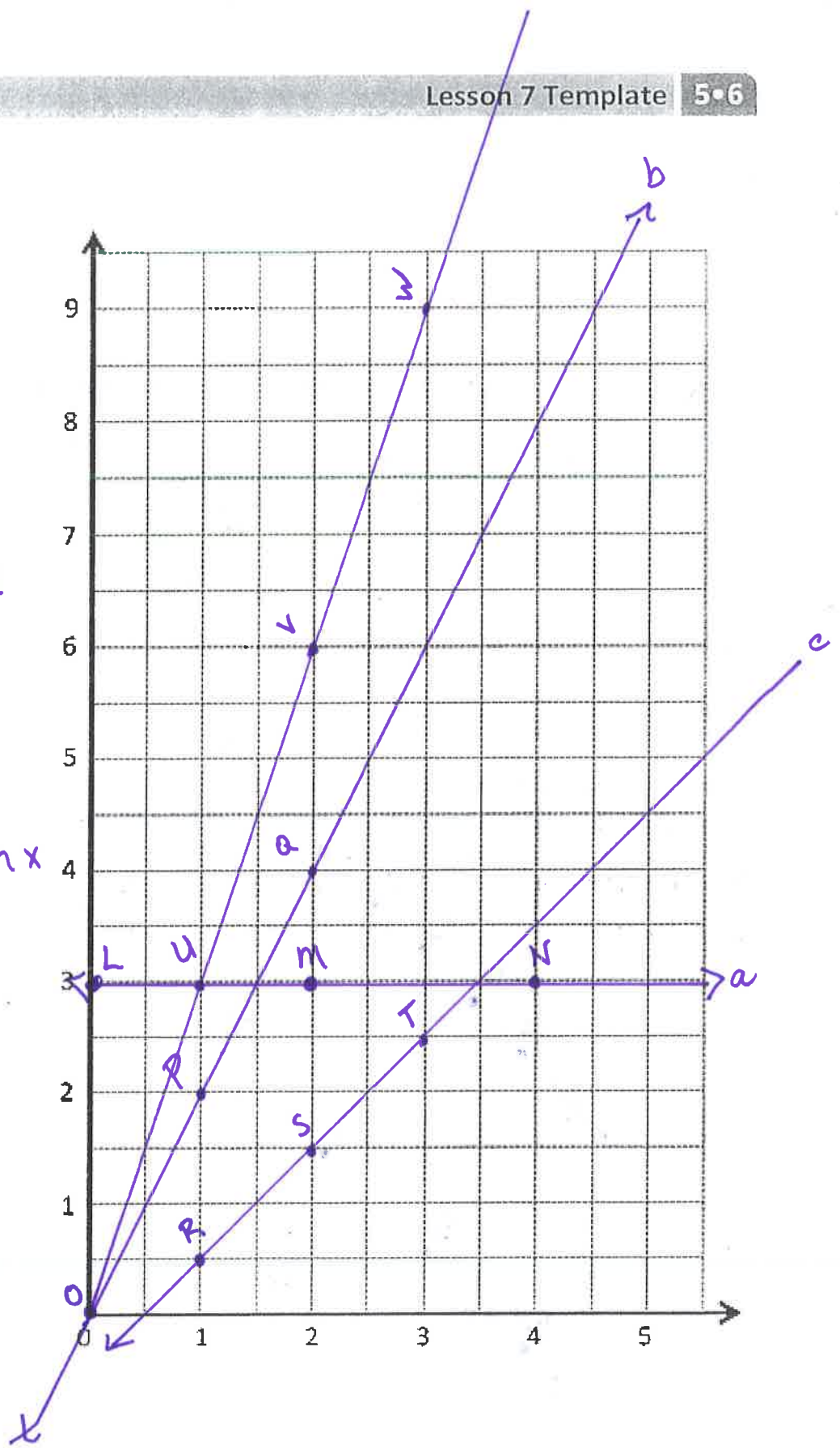
Point	( <i>x</i> , <i>y</i> )
<i>O</i>	(0, 0)
<i>P</i>	(1, 2)
<i>Q</i>	(2, 4)

c. *y* is  $\frac{1}{2}$  less than *x*

Point	( <i>x</i> , <i>y</i> )
<i>R</i>	(1, $\frac{1}{2}$ )
<i>S</i>	(2, $1\frac{1}{2}$ )
<i>T</i>	(3, $2\frac{1}{2}$ )

d. *y* is *x* times 3

Point	( <i>x</i> , <i>y</i> )
<i>U</i>	(1, 3)
<i>V</i>	(2, 6)
<i>W</i>	(3, 9)



coordinate plane

## M6L7: Patterns on the Coordinate Grid.

a. The rule for the coordinates is

y is equal to x

$$(4,4) \checkmark \quad (10,10) \checkmark \quad (1\frac{1}{2}, 1\frac{1}{2})$$

↙  
AD

$$\frac{3}{2} = 1\frac{1}{2} \quad (\frac{3}{2}, 1\frac{1}{2}) \checkmark$$

Collinear = relationship between x and y is the same

$$x = 2 \quad (2, 5)$$

y is 3 more than x

$$y = x + 3$$

$$7 = x + 3$$

$$y = 10 + 3$$

$$y = 7, x = 4 \quad (4, 7)$$

$$x = 10, y = 13 \quad (10, 13)$$

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$$(5, 10) = b$$

$$(\frac{1}{2}, 1\frac{1}{2})$$

$$(5, 4\frac{1}{2})$$

Mid. F: Patterns on the coordinate grid

The rule for the coordinate is

$y$  is equal to  $x$   
 $(H, H) \vee (10, 10) \vee (\frac{1}{2}, \frac{1}{2})$

$\frac{3}{10} = \frac{1}{2} = \frac{3}{6}$   
 $(\frac{3}{10}, \frac{3}{10}) \vee (\frac{3}{6}, \frac{3}{6})$

Collinear = relationship between  $x$  and  $y$  is the same

$x = 2$   
 $(2, 2)$

$y$  is 3 more than  $x$

$(F, P)$   $H = x, F = P$

$(8, 11)$   $x = 10, y = 13$

$n = x + 3$

$f = x + 3$

$p = 10 + 3$

$(2, 10) = p$   
 $(\frac{1}{2}, \frac{1}{2})$

$(2, \frac{1}{2})$