

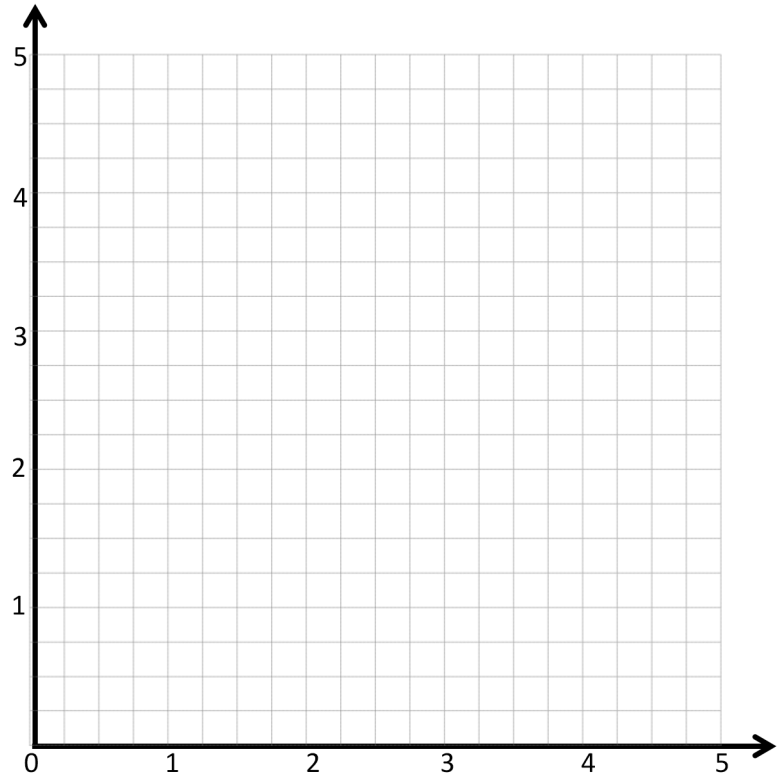
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Write a rule for the line that contains the points  $(0, \frac{1}{4})$  and  $(2\frac{1}{2}, 2\frac{3}{4})$ .

a. Identify 2 more points on this line, then draw it on the grid below.

Point	$x$	$y$	$(x, y)$
$B$			
$C$			



b. Write a rule for a line that is parallel to  $\overrightarrow{BC}$  and goes through point  $(1, 2\frac{1}{4})$ .

2. Give the rule for the line that contains the points  $(1, 2\frac{1}{2})$  and  $(2\frac{1}{2}, 2\frac{1}{2})$ .

a. Identify 2 more points on this line, then draw it on the grid above.

Point	$x$	$y$	$(x, y)$
$G$			
$H$			

b. Write a rule for a line that is parallel to  $\overrightarrow{GH}$ .

3. Give the rule for a line that contains the point  $(\frac{3}{4}, 1\frac{1}{2})$ , using the operation or description below. Then, name 2 other points that would fall on each line.

a. Addition: \_\_\_\_\_

Point	$x$	$y$	$(x, y)$
$T$			
$U$			

b. A line parallel to the  $x$ -axis: \_\_\_\_\_

Point	$x$	$y$	$(x, y)$
$G$			
$H$			

c. Multiplication: \_\_\_\_\_

Point	$x$	$y$	$(x, y)$
$A$			
$B$			

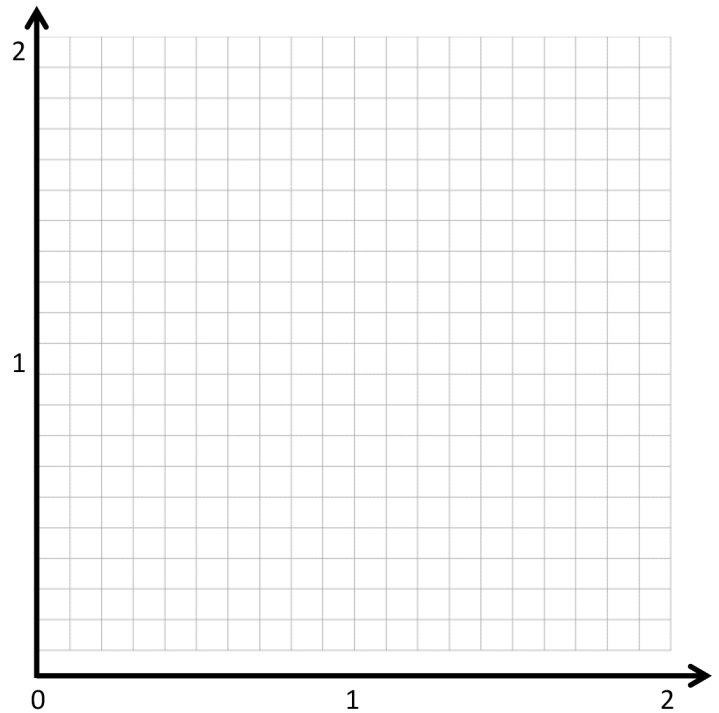
d. A line parallel to the  $y$ -axis: \_\_\_\_\_

Point	$x$	$y$	$(x, y)$
$V$			
$W$			

e. Multiplication with addition: \_\_\_\_\_

Point	$x$	$y$	$(x, y)$
$R$			
$S$			

4. On the grid, two lines intersect at  $(1.2, 1.2)$ . If line  $a$  passes through the origin, and line  $b$  contains the point at  $(1.2, 0)$ , write a rule for line  $a$  and line  $b$ .



## Answer Key

1.
  - a. Answers will vary.
  - b. Answers will vary.
2.
  - a. Answers will vary.
  - b. Answers will vary.
3.
  - a. Answers will vary.
  - b. Answers will vary.
  - c. Answers will vary.
  - d. Answers will vary.
  - e. Answers will vary.
4. Answers will vary.