

Name _____

Date _____

1. Complete the table for the given rules.

Line *a*

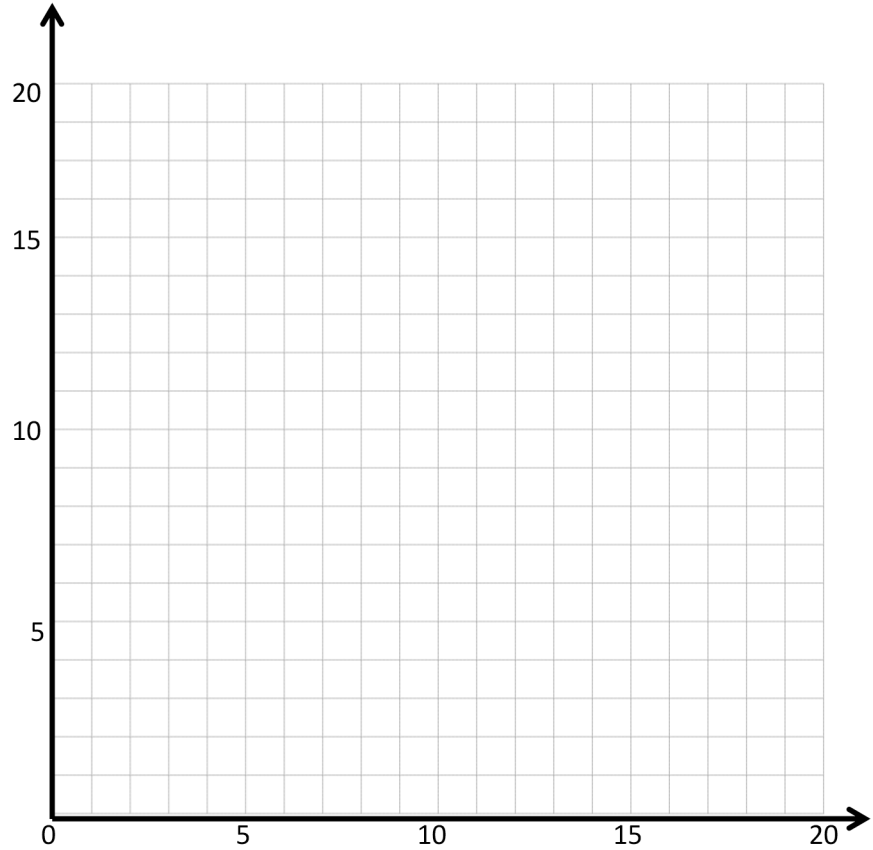
Rule: *y* is 1 less than *x*

<i>x</i>	<i>y</i>	(<i>x</i> , <i>y</i>)
1		
4		
9		
16		

Line *b*

Rule: *y* is 5 less than *x*

<i>x</i>	<i>y</i>	(<i>x</i> , <i>y</i>)
5		
8		
14		
20		



a. Construct each line on the coordinate plane.

b. Compare and contrast these lines.

c. Based on the patterns you see, predict what line *c*, whose rule is 7 less than *x*, would look like. Draw your prediction on the plane above.

2. Complete the table for the given rules for x values 0, 3, 4, and 6.

Line e

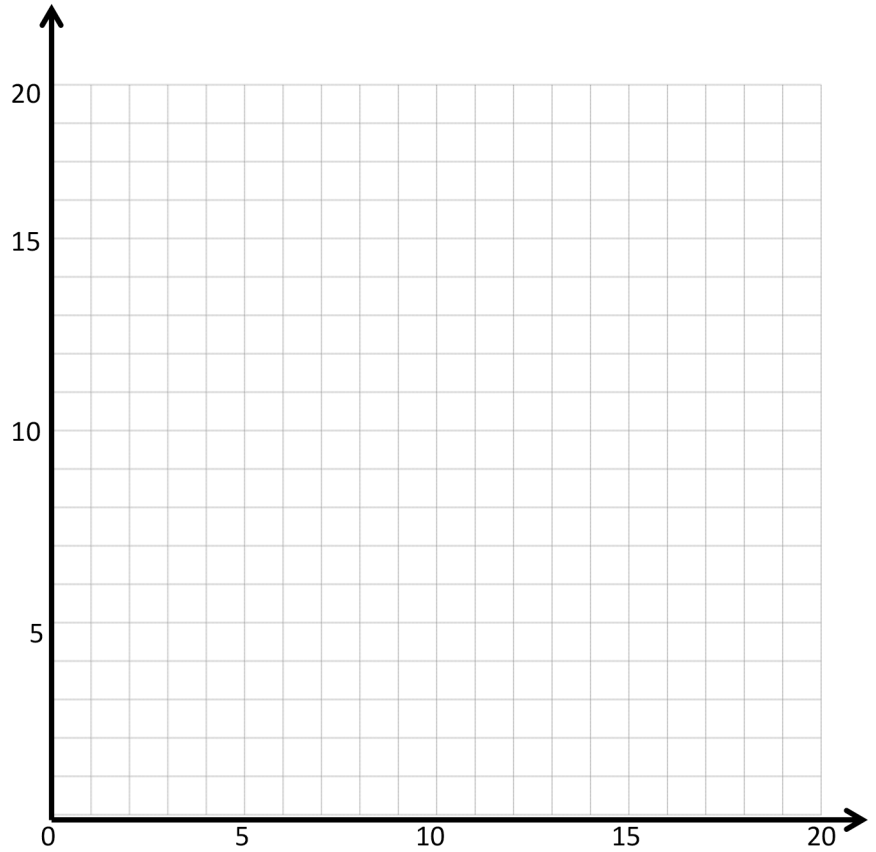
Rule: y is 3 times as much as x

x	y	(x, y)

Line f

Rule: y is a third as much as x

x	y	(x, y)



- Construct each line on the coordinate plane.
 - Compare and contrast these lines.
- c. Based on the patterns you see, predict what line g , whose rule is *4 times as much as x* , and line h , whose rule is *one-fourth as much as x* , would look like. Draw your prediction in the plane above.

Answer Key

- a*: 0, (1, 0); 3, (4, 3); 8, (9, 8); 15, (16, 15)

b: 0, (5, 0); 3, (8, 3); 9, (14, 9); 15, (20, 15)

 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- e*: 0, (0,0); 3, (1,3); 12, (4,12); 18, (6,18)

f: 0, (0,0); 3, (1, (3, 1); 3, (9,3); 5, (15,5)

 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.