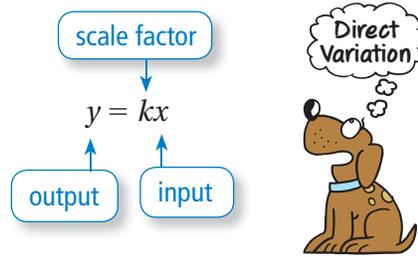


REVIEW: Direct Variation

Name _____

Key Concept and Vocabulary

y is directly proportional to x .

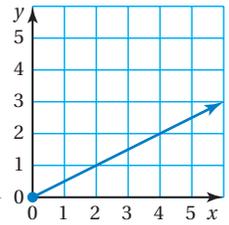


Visual Model

For positive values of x and y , as x increases, y increases.

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

through origin



Skill Example

1. Equation: $y = 2x$

Table:

x	0	1	2	3	4	5
y	0	2	4	6	8	10

Words: y is twice the value of x .

Application Example

2. The amount y of gasoline a car uses is $\frac{1}{20}$ times the number x of miles it travels. Make a table to show this relationship.

x	0	20	40	60	80	100
y	0	1	2	3	4	5



y is directly proportional to x .

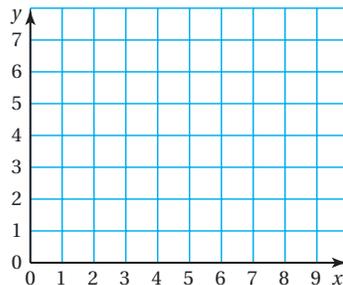
PRACTICE MAKES PURR-FECT™

Check your answers at BigIdeasMath.com.

Complete the table. Then sketch the graph.

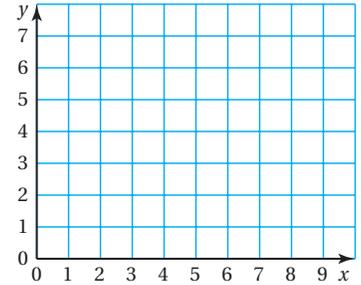
3. $y = 1.5x$

x	y
0	
1	
2	
3	
4	



4. $y = \frac{2}{3}x$

x	y
0	
1	
2	
3	
4	



WRITING AN EQUATION Write a direct variation equation for the table.

5.

x	0	1	2	3	4
y	0	3	6	9	12

6.

x	0	1	2	3	4
y	0	0.4	0.8	1.2	1.6

7. **WALRUS** The amount y that a walrus eats is directly proportional to its weight x . A 4000 pound walrus eats 20 pounds each day. How much does a 2000 pound walrus eat each day? _____