

Name: _____ Date: _____

Direct Variation Worksheet

1. Tell if the following tables represent a direct variation relationship. If it is, find the equation.

A.

X	Y
1	10
4	9
7	8

B.

X	Y
9	3
11	5
13	7

C.

X	Y
90	3
80	2
70	1

D.

X	Y
75	15
85	10
90	5

2. Tell if the data has a direct variation relationship. If yes, give the constant variation and the equation to represent the data.

X	Y
9	3
12	4
15	5

k =

Equation:

- Write the equation of a direct variation that has a constant of variation equal to -3.
- Y and X vary directly. If the constant of variation is $\frac{1}{2}$, then what is the value of y when $x = -6$?
- Y and X vary directly. If the constant of variation is 4, then what is the value of x when $y = 6$?
- Suppose y varies directly as x. If $y = 3$ when $x = 15$, then find x when $y = 5$.
- Suppose y varies directly as x. Find x when $y = 10$ if $y = -7$ when $x = -14$.
- Suppose y varies directly as x. If $x = 15$ when $y = 12$, find x when $y = 21$.
- Suppose y varies directly as x. If $x = 24$ when $y = 8$, then what is the constant of variation?