Direct Variation

If y varies directly as x then y = kx, where k is the constant of variation.

$$x + y = 20 \qquad \qquad xy = 20 \qquad \qquad \frac{x}{y} = 20$$

1. Find the constant of variation if the first variable varies directly as the second variable.

a) $x = 15, y = 3$ b	a) $a = -120$	b, b = 30
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c) y = 4.5, x = 15

d) A = 212, P = 200

2. Determine if y varies directly as x. If it does, find the constant of variation.

a)	x	2	6	10	b)	x	4	5	6	
	у	-3	-9	-15		у	6	8	10	

- 3. If y varies directly as x, find the missing value.
 - a) y = 14 when x = 2. Find x when y = 21.

b) y = 35 when x = -5. Find y when x = -20.