

## Direct, Inverse, and Joint Variation

Direct Variation:     **y varies directly as x**

Described by the eq'n:      $y = kx$      where k is the constant of variation

So

$$k = \frac{y}{x}$$

Note: A way to remember is Direct and Divide both start with the letter D.

To solve, set up your problem as follows:

$$\frac{y_1}{x_1} = \frac{y_2}{x_2}$$

Inverse Variation:     **y varies inversely as x**

Described by the eq'n:      $y = \frac{k}{x}$      where k is the constant of variation

So

$$k = yx$$

Note: A way to remember is inverse is the opposite of direct so if you divide for direct, then you must multiply for the inverse.

To solve, set up your problem as follows:

$$y_1x_1 = y_2x_2$$

Joint Variation:     **y varies jointly as x and z**

Described by the eq'n:      $y = kxz$      where k is the constant of variation

So

$$k = \frac{y}{xz}$$

Note: Joint variation works the same way as direct variation.

To solve, set up your problem as follows:

$$\frac{y_1}{x_1z_1} = \frac{y_2}{x_2z_2}$$

## 8 4 Practice Direct Joint And Inverse Variation

**Sandall, Swarthout**



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