



Vocabulary: Direct and Inverse Variation



Vocabulary

- Constant of proportionality – the ratio of two variables in a direct variation, or the product of two variables in an inverse variation.
 - This is also known as the *constant of variation*.
 - The constant of proportionality is typically represented by the variable k .
- Direct variation – a relationship between two variables in which their ratio remains constant.
 - In the direct variation $y = kx$, $\frac{y}{x} = k$, and $k \neq 0$.
 - Two quantities that vary directly are *directly proportional*.
- Inverse variation – a relationship between two variables in which their product remains constant.
 - In the inverse variation $y = \frac{k}{x}$, $xy = k$, and $k \neq 0$.
 - Two quantities that vary inversely are *inversely proportional*.

