Class 8 Important Formulas



Chapter 11 - Direct and Inverse Proportion

S.n o	Term	Description
1	Direct Proportion	Two quantities <i>x</i> and <i>y</i> are said to be in direct proportion if they increase (decrease) together in such a manner that the ratio
		of their corresponding values remains constant.
		That is if $x/y=k=[k \text{ is a positive number}] = Constant$
		Then x and y are said to vary directly. In such a case if $y1$, $y2$ are the values of y corresponding to the values $x1$, $x2$ of x respectively then $\frac{x_1}{y_1} = \frac{x_2}{y_2}$
2	Inverse proportion	Two quantities x and y are said to be in inverse proportion if an increase in x causes a proportional decrease in y (and viceversa) in such a manner that the product of their corresponding values remains constant. That is, if $xy = k$ = Constant Then x and y are said to vary inversely. In this case if y_1 , y_2 are the values of y corresponding to the values x_1 , x_2 of x respectively then $x_1y_1 = x_2y_2$