# Class 8 Important Formulas 

## Chapter 11 - Direct and Inverse Proportion

| $\begin{aligned} & \text { S.n } \\ & 0 \end{aligned}$ | Term | Description |
| :---: | :---: | :---: |
| 1 | Direct Proportion | Two quantities $x$ and $y$ are said to be in direct proportion <br> if they increase (decrease) together in such a manner that the ratio of their corresponding values remains constant. |
|  |  | That is if $x / y=k=[k$ is a positive number $]=$ Constant <br> Then $x$ and $y$ are said to vary directly. In such a case if $y 1, y 2$ are the values of $y$ corresponding to the values $x 1, x 2$ 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 <br> 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. <br> That is, if $x y=k=$ Constant <br> Then $x$ and $y$ are said to vary inversely. <br> 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 $x_{1} y_{1}=x_{2} y_{2}$ |

