Given: $y$ varies directly with $x$, and $y=144$ when $x=8$,
Constant of Variation- The ratio between two variables in a direct variation.
Therefore, K=y/x
$K=y / x \quad$ where
$\mathrm{K}=$ Constant of variation
$\mathrm{y}=$ one variable
$\mathrm{x}=$ another variable
Therefore,
$\mathrm{K}=\frac{144}{8}=\quad 18$
Therefore the constant of variation is 18 .

