| Question | Equation | Find k | New Equation | Find Value using Equation |
|---|---|---|---|---|
| $A$ is inversely proportional to $B$, when $A = 5, B = 6$. Find $A$ when $B = 10$. | $A = \dfrac{k}{B}$ | $5 = \dfrac{k}{6}$  so  $k = 30$ | $A = \dfrac{30}{B}$ | $A = \dfrac{30}{10} = 3$ |
| (a)  $y$ is inversely proportional to $x$, when $y = 12, x = 5$. Find $y$ when $x = 4$. | | | | |
| (b)  $N$ is inversely proportional to $L$, when $N = 2.5$, $L = 8$. Find $N$ when $L = 4$. | | | | |
| (c)  $y$ is inversely proportional to $x$.  If $y = 5$ when $x = 8$, find $y$ when $x = 20$ | | | | |
| (d) $A$ is inversely proportional to $B$ and when $A = 12, B = 3$. Find $A$ when $B = 10$ | (e) $h$ is inversely proportional to $V$ and $h = 36$ when $V = 8$. Find $h$ when $V = 20$ | (f) $y$ is inversely proportional to $x$, and $y = 0.2$ when $x = 5$. Find $x$ when $y = 25$ | (g) $y$ is inversely proportional to $x$. When $x = 2, y = 64$. Find $x$ when $y = 80$. | |