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| Question | Equation | Find k | New Equation | Find Value using Equation |
| $A$ is inversely proportional to $B$, when $A=5, B=6$.Find $A$ when $B=10$. | $$A=\frac{k}{B}$$ | $5=\frac{k}{6}$ so $k=30$ | $$A=\frac{30}{B}$$ | $$A=\frac{30}{10}=3$$ |
| (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 $y=80$. |