

If the function is proportional, then $y = kx$ for some constant k . When $x = 2$, $y = 6$, so $6 = k \cdot 2$ must equal $2k$. Therefore, when $x = 5$, $y = k \cdot 5 = 2k \cdot \frac{5}{2} = 6 \cdot \frac{5}{2} = 15$.