

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  $x = 5$ ,  $y = k \cdot 5 = 2k \cdot \frac{5}{2} = 6 \cdot \frac{5}{2} = 15$ .