

Because this is a direct variation problem, use the equation  $y = kx$ , where  $y = 24$  and  $x = 400$ , and solve for  $k$ .

$$24 = k(400), \text{ so } k = 0.06$$

Use the  $k$  value in a new direct variation equation in which  $x = 350$ , and solve for  $y$ :

$$y = 0.06(350)$$

$$y = 21$$