

Incorrect. Because the problem says "directly proportional," the equation to use is  $y = kx$ , where  $y$  is the cost and  $x$  is the number of square feet. Solve  $165,000 = k(2,200)$  for  $k$ . Then use this value of  $k$  and  $x = 2,800$  in a second direct variation equation, and solve for  $y$ .