

Correct. 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  $k$ . This gives you  $k = 75$ .

Then for  $x = 2,800$ :  $y = 75(2,800)$  or  $y = 210,000$