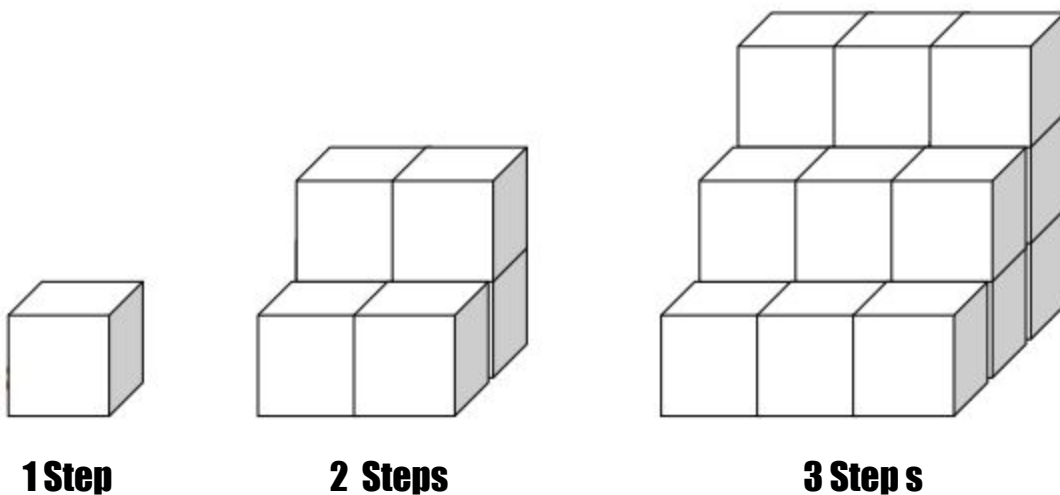


'Cause all I wanna do is go the distance

In 1928, a stonemason was hired to build the steps to the Philadelphia Art Museum, which would later be called the Rocky Steps. Before building the steps, the benefactor of the museum needed to know how many stone bricks would be needed to build the stairs. The stonemason showed the benefactor the diagram below, and said that based on the land surrounding the museum, there would need to be 72 steps on the staircase. How many stone bricks were used to build the famous Rocky Steps? If the benefactor wanted to fund other staircases with a different number of steps, how could he determine the number of stone bricks needed for n steps?



Alternates:

If each stone brick would cost the benefactor \$2.10, how much would he be expected to pay?

How many stone bricks would be needed for 6 steps? 10 steps? n steps?

If you had 30,000 stone bricks, how big of a staircase could you build?