The number of ways to get to a site is the number of ways to get to the site at its left plus that to the site above it. Therefore if we write down the number of ways respectively on each site, the grid forms a Pascal triangle (rotated by  $45^{\circ}$ ). And therefore the number of ways to get to the bottom right corner of a  $20 \times 20$  grid is

 $\binom{40}{20}$ .