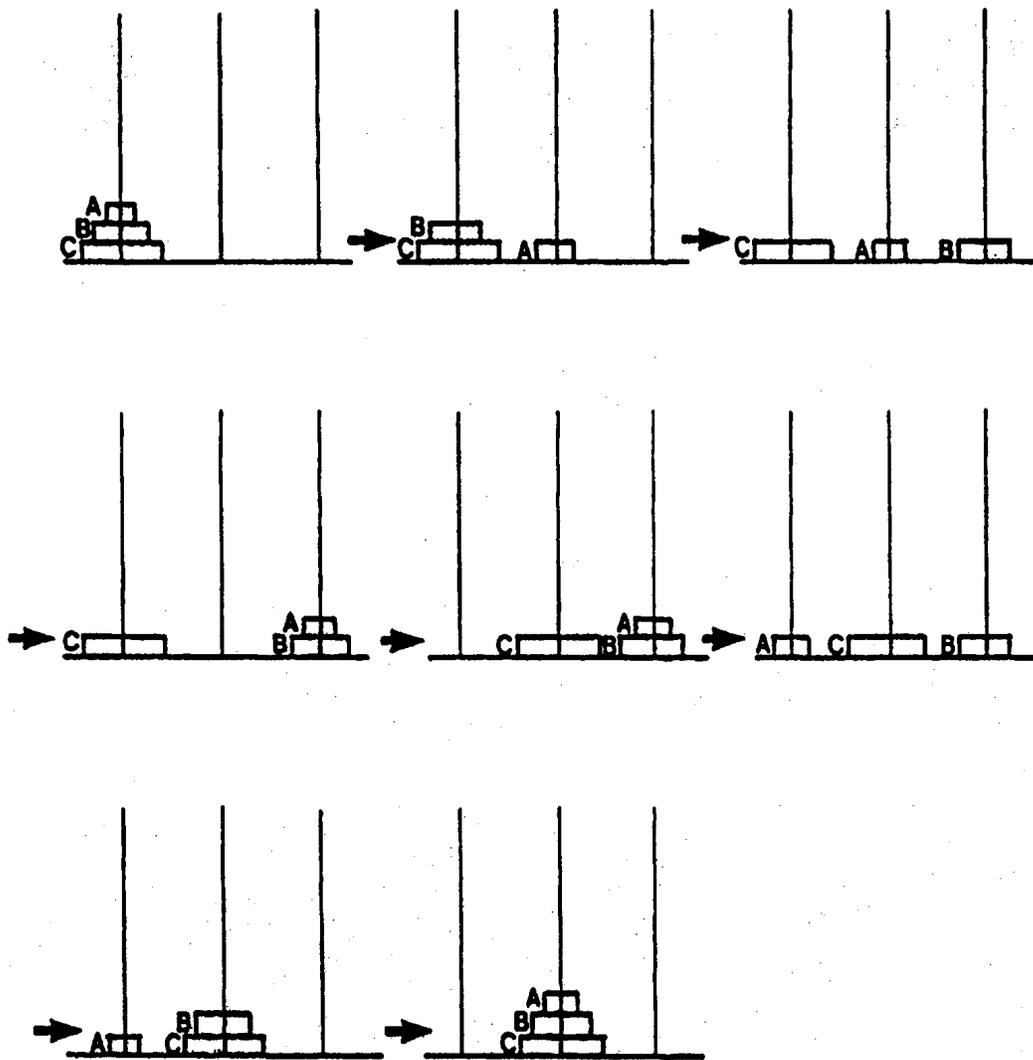


TOWERS OF HANOI

The Towers of Hanoi consist of three poles. On one pole are stacked a number of discs each of smaller diameter than the one below. The discs have to be moved one at a time to end up stacked on another pole. At no time may a disc be placed on top of a smaller disc. For 3 discs the moves would be



In this investigation you are asked to consider other numbers of discs and to describe any patterns which you find in the numbers of moves required in each case.