

Patterns

Use your Tower of Hanoi to complete the following table for 1 to 4 discs.

Number of discs	1	2	3	4	5	6
Number of moves						

What patterns can you see in the table connecting the number of discs to the number of moves?

Based on the table and the patterns, how many moves do you think are needed for 7 discs?

What patterns can you see in the table that connect the number of moves to each other?

Based on the patterns, come up with a conjecture for how many moves are needed for d discs.
