

Proofs

Conjecture 1A: the number of moves for 7 discs is twice the number of moves for 6 discs, plus 1.

How could you prove Conjecture 1A?

Can you prove Conjecture 1A if you replace the 7 with 8 or 17 and use the same method?

Can you prove Conjecture 1A if you replace the 7 with d and use the same method?

Conjecture 3A: the number of moves needed for 7 discs is $2^7 - 1$.

How could you prove Conjecture 3A?

Can you prove Conjecture 3A if you replace the 7 with 8 or 17 and use the same method?

Can you prove Conjecture 3A if you replace the 7 with d and use the same method?

Conjecture 2A: the number of moves for d discs is 2^{d-1} more than the number of moves for $d - 1$ discs.

Can you prove Conjecture 2A?
