

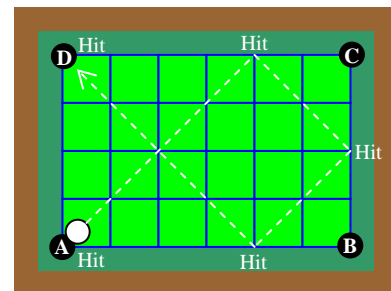
Advanced Paper Pool

NAME _____

1. For each table, predict the pocket in which the ball will land and the number of hits. In addition, list two other tables that would have the same pocket and number of hits as the given table.

TABLE DIMENSIONS	NUMBER OF HITS	POCKET	TWO SIMILAR TABLES
9×11			
33×121			
51×72			
32×72			
45×81			
108×72			
42×7			
13×65			
114×84			
42×13			

2. The dimensions of the table to the right are 6×4 . To keep the same path, if the length is increased from 6 to 21, the height should be increased from 4 to _____.



3. The length of a table is 14. If the height is 40, how many hits occur?
4. If the length of a table is 14, what is the smallest height so that there are at least 50 hits?