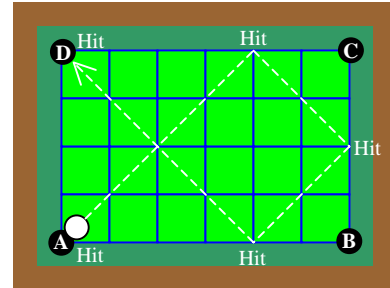


How Many Squares are Crossed?

NAME _____

Use the following table to record data about the number of squares that are crossed during a ball's path across a paper pool table.

For instance, on the 6×4 table to the right, the entire path covers 12 diagonal units.



DIMENSIONS OF TABLE	NUMBER OF SQUARES CROSSED (IN DIAGONAL UNITS)

DIMENSIONS OF TABLE	NUMBER OF SQUARES CROSSED (IN DIAGONAL UNITS)

1. What rule(s) allows you to predict the number of squares that will be crossed? Is there one rule that works for all tables?

2. How many squares would be crossed on a 24×36 table?