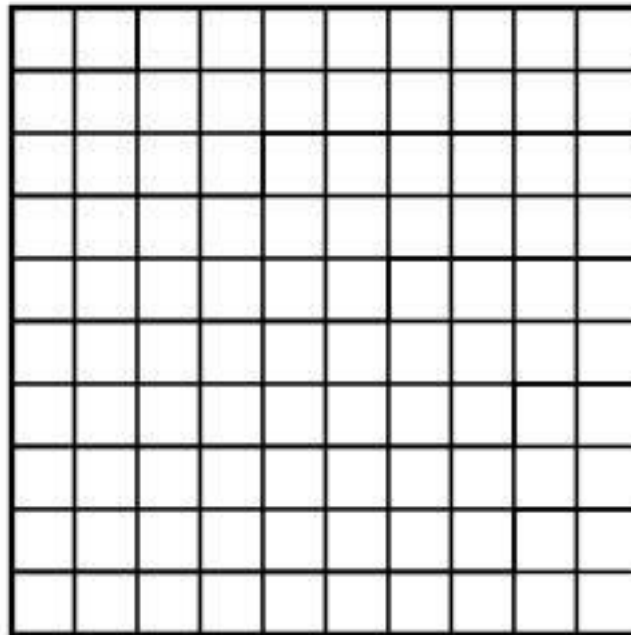


Gravity Car Assessment

- 1) You have been selected through a contest to win one million dollars. You must shoot a basketball from the top of a building so that it goes over a billboard and lands in a hoop on the ground. The following table compares the height of the basketball from the ground to the amount of time it is in the air.

IV:	0	1	2	3
DV:	80	128	144	128

- a) Graph the data. Be sure to label your axes and pick a good scale.



- b) Write the recursive rule for the function.
- c) Use the recursive rule to find $f(4)$ (show all calculations).

d) Write the explicit rule of the function.

e) Use the explicit rule to determine how many seconds it takes the ball to get to the rim (show all calculations).