

Sketching Linear Relations

The Canadian National Frog Jumping Championship is part of a festival held in St-Pierre Jolys, MB. The first frog, named George, jumped a distance of just over 2 m in a single leap. Assume that George could maintain a distance of 2 m on every jump and that the total distance travelled from the start is measured after every jump. Consider the relationship between the number of jumps Georges takes and the total distance the frog travels.

a) Identify the relationship as linear or non-linear. Explain how you know.

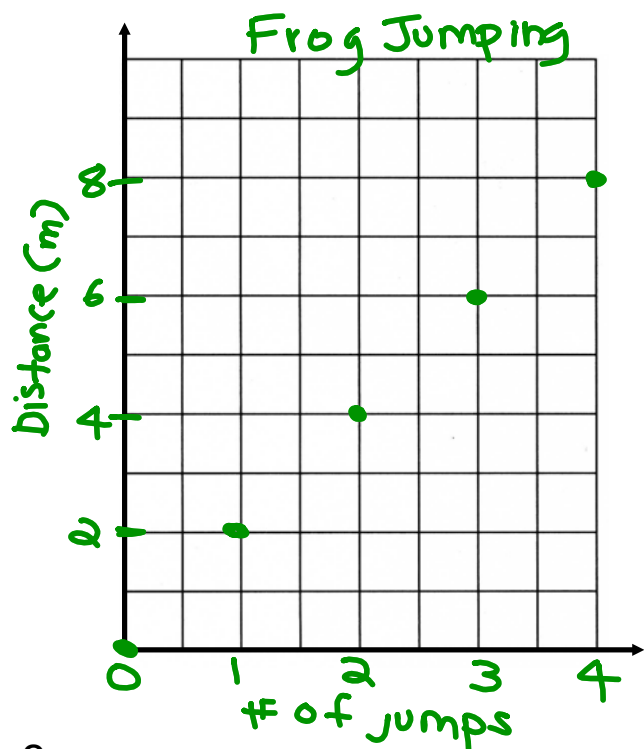
Linear - He jumps the same distance each time.

b) What are the dependent and independent variables?

IV \rightarrow # of jumps
DV \rightarrow distance

c) Create a table of values and graph for the relation.

IV x # of jumps	DV y Distance
1	2
2	4
3	6
4	8



e) Are the data discrete or continuous?

Discrete - only have whole # jumps