✖ Recycle Problem Solving N ✐

You will need a piece of *Centimeter Grid Paper* to complete this problem.

Luis and Jerome discovered an interesting fact while studying recycling. The energy saved from recycling one glass bottle will light a 100-watt bulb for four hours.

1. Use this fact to complete the data table.

Energy Saved

N Number of Recycled Glass Bottles	T Time (in hours) a 100-Watt Bulb can Burn
1	4
3	
	20
7	

2. A. Make a graph comparing the (*N*) Number of Recycled Glass Bottles to (*T*) Time a 100-watt bulb can burn.

   B. How many hours can a 100-watt bulb burn from the energy saved from 4 recycled glass bottles? Show your work on your graph.

   C. If you recycled 10 glass bottles, how many hours can a 100-watt bulb burn with the energy saved? Show or tell how you solved this.

   D. Write a ratio that compares time to number of class bottles.

   E. Write two ratios equivalent to the ratio in Question 2D.