Name

Excel Math

Tour de Vacation

Ana and her brother Bret watched a bicycle race while on vacation. After the race was over he asked if she could help him create a graph of the race route. Ana said "Sure!" They went out to talk to some of the bike riders who were resting in the park.

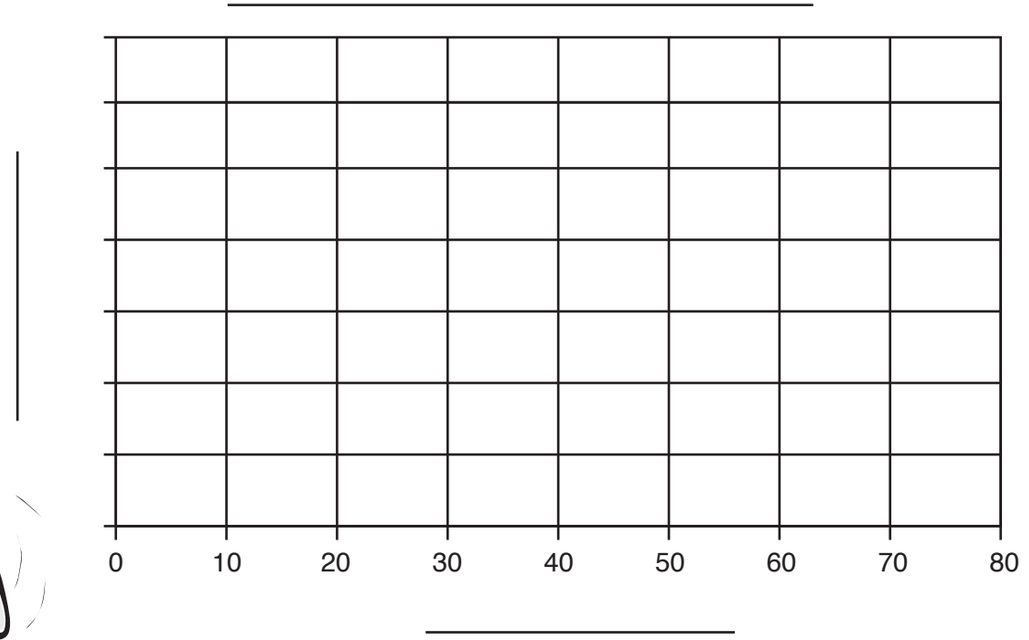
The race started in Gap and ended in Marse, **eighty** miles away. Ana asked one of the riders what the elevation of Gap was. He replied, "**1600** feet." Their hotel was next to an ocean beach, so they knew Marse is at sea level. Ana put dots on the chart at those points.

Overall the route was gradually downhill. The rider said there was just one climb that starts at **30** miles, where the elevation is **1000** feet above sea level. The road goes up to **1250** feet and back down to **1000** feet by the **40**-mile point. Ana put dots on the map as he instructed.

Fifteen miles before the finish the road drops to sea level, but it quickly rises up **200** feet and then drops back to sea level over a **10**-mile distance. The last **5** miles are completely flat, as the riders circled the beachside town.

After Ana and Bret completed the map, they shared it with the riders. They agreed it looked like the ride was almost all downhill, but it seemed like a lot of work when they were doing it! The team invited Ana and Bret to have lunch with them in the plaza.

Label the graph and indicate the route taken by the riders. Then write a word problem based on the information in the graph.



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