

Appendix 2. Bridge Activity - Student Worksheet

Hundreds of people fell into the river as a result of the collapse of a suspension bridge in the Indian state of Gujarat, killing at least 132 people. The suspension pedestrian bridge connecting the two sides of the river collapsed. It is stated that 400-500 people were on the bridge at the time of the collapse. It was announced that at least 132 people died as hundreds of people on the bridge fell into the Macchu River.



<https://www.normhaber.com/hindistanda-asma-kopru-coktu-132-olu-392405>

Works will be done to reconstruct the bridge. While the bridge is being constructed, it will be ensured that it is a bridge that will withstand the greatest force acting on the bridge. You have been hired as an engineer at a construction company that will construct the bridge. You are expected to design and construct a model bridge with a length of at least 30 cm.

To cover the cost of the bridge, you were asked to develop a model that shows how much the bridge toll should be based on the number of vehicles that will cross the bridge daily. You are requested to find out how much the bridge toll should be and submit a report to the construction company stating how you reached this toll. In this report, you are expected to include information about the process of creating your model.