

The seven bridges of Königsberg

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This is a historical puzzle. In the 18th century, the Prussian city of Königsberg (now part of Russia) was divided into four land masses by the Pregel river. The city was connected by the 7 bridges across the river as shown in the map. The residents wondered - Is it possible to find a trail to walk on every bridge exactly once? We look at the solution to this problem given by Leonhard Euler, which led to the development of the branch of Mathematics called Graph Theory. We also look at the applications of Euler's result in daily life today and see how to construct similar puzzles on our own to pose them to our friends!

