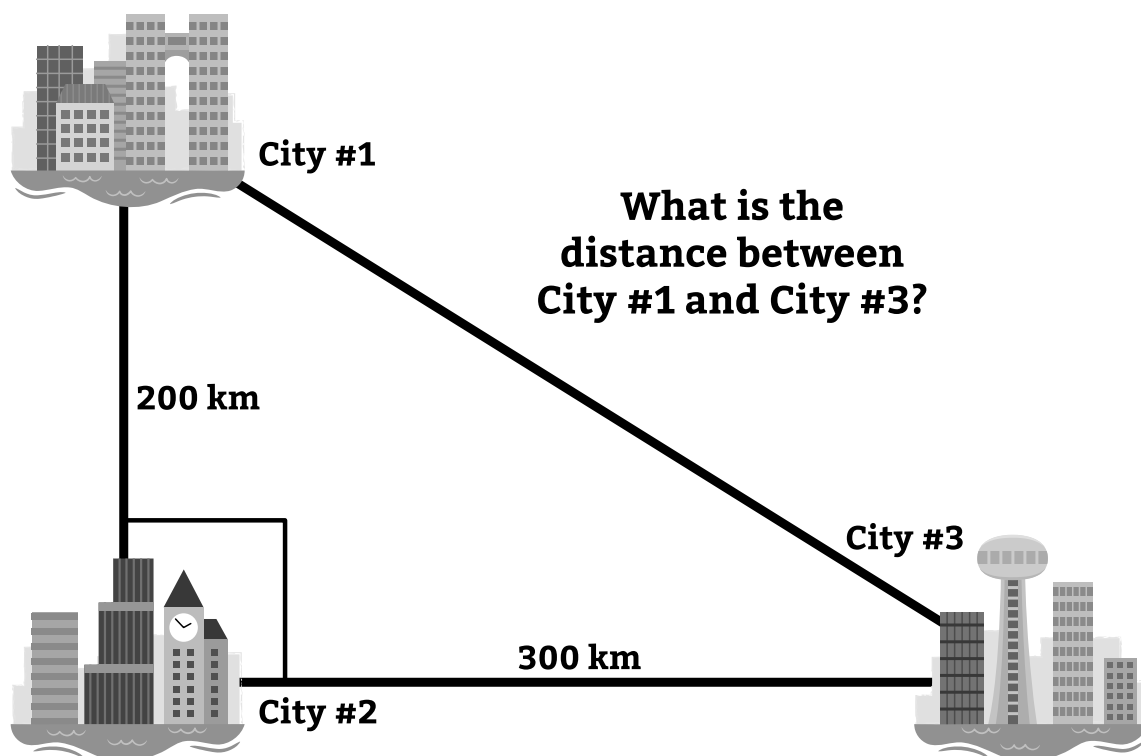


Cities and Distances



You are in City #1 and need to get to City #3.

There are two possible routes to get to City #3; either along the hypotenuse, or down and then across the legs.

1. Predict which route is the fastest, and explain your decision.
2. Use the Pythagorean theorem to prove your answer and determine the distance from City #1 to City #3.