Grade 2  
Unit 9Lesson 3CC BY NC 2024 Illustrative Mathematics®

Unit 9, Lesson 3

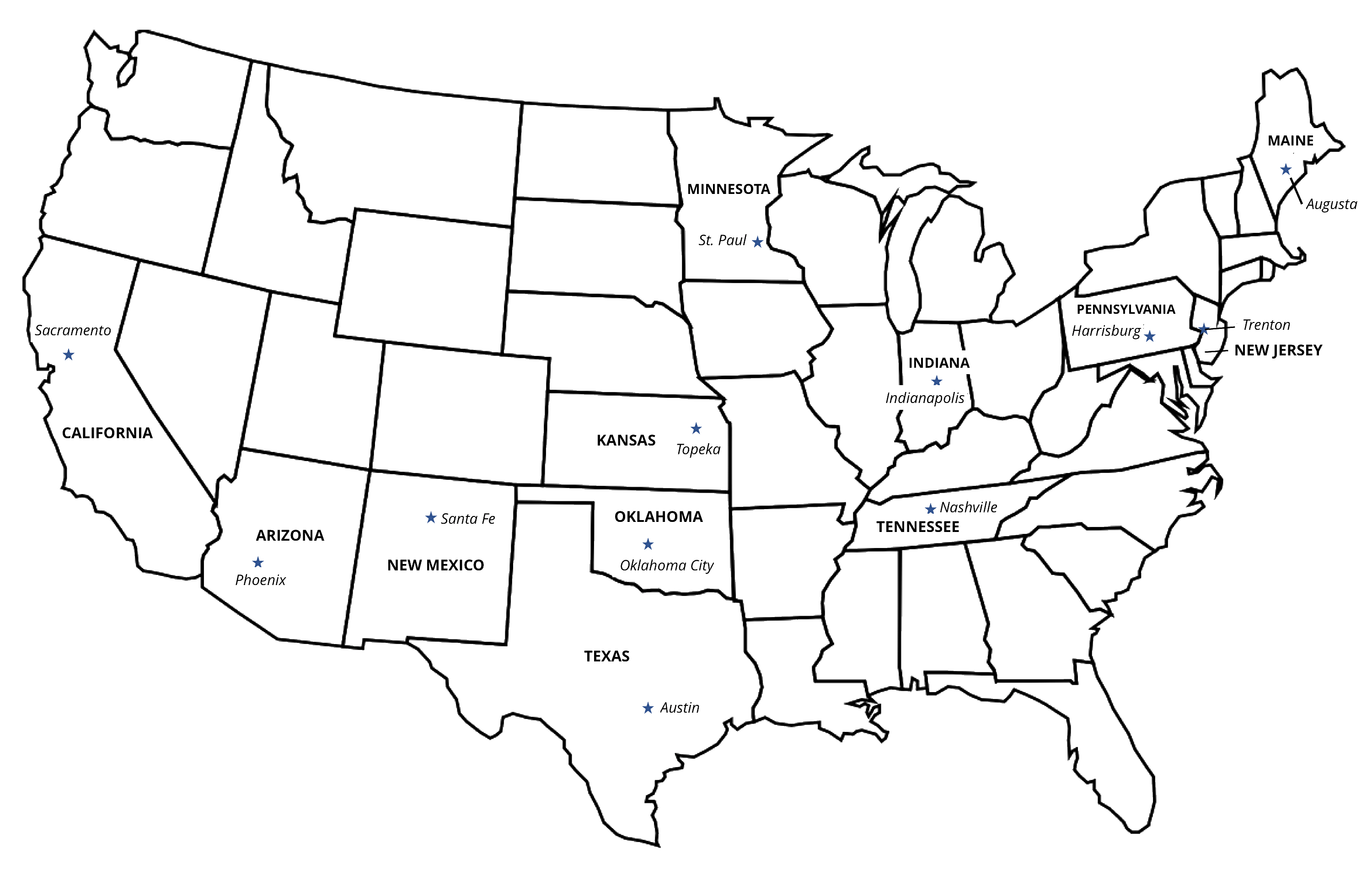
# Measure on a Map

* Let’s add and subtract length measurements.

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## Warm-up Notice and Wonder: From Sea to Shining Sea

What do you notice? What do you wonder?



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## Activity 1 Measure on the Map

Draw 3 lines on the map to show each trip. Each line should connect 2 cities. Measure the length of each line in centimeters.

1. Noah’s Trip
   1. Trenton, New Jersey, to Harrisburg, Pennsylvania: \_\_\_\_\_ cm
   2. Harrisburg to Indianapolis, Indiana: \_\_\_\_\_ cm
   3. Indianapolis to St. Paul, Minnesota: \_\_\_\_\_ cm
2. Diego’s Trip
   1. Sacramento, California, to Phoenix, Arizona: \_\_\_\_\_ cm
   2. Phoenix to Santa Fe, New Mexico: \_\_\_\_\_ cm
   3. Santa Fe to Topeka, Kansas: \_\_\_\_\_ cm
3. Lin’s Trip
   1. Austin, Texas, to Oklahoma City, Oklahoma: \_\_\_\_\_ cm
   2. Oklahoma City to Nashville, Tennessee: \_\_\_\_\_ cm
   3. Nashville to Augusta, Maine: \_\_\_\_\_ cm
4. Find the total length of the 3 lines for each trip. Represent the total with an equation.
   1. Lin’s total
   2. Diego’s total
   3. Noah’s total

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## Activity 2 How Much Longer?

Use your total line lengths from the first activity. Represent each question with an equation. Use a ? for the unknown length. Then find the unknown length.

1. How much shorter is Diego’s total than Lin’s?
2. How much longer is Diego’s total than Noah’s?
3. How much shorter is Noah’s total than Lin’s?