Unit 9, Lesson 3

Measure on a Map

Let's add and subtract length measurements.

Warm-up

Notice and Wonder: From Sea to Shining Sea

What do you notice? What do you wonder?

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
   a. Trenton, New Jersey, to Harrisburg, Pennsylvania: _____ cm
   b. Harrisburg to Indianapolis, Indiana: _____ cm
   c. Indianapolis to St. Paul, Minnesota: _____ cm
2. Diego's Trip
   a. Sacramento, California, to Phoenix, Arizona: _____ cm
   b. Phoenix to Santa Fe, New Mexico: _____ cm
   c. Santa Fe to Topeka, Kansas: _____ cm
3. Lin's Trip
   a. Austin, Texas, to Oklahoma City, Oklahoma: _____ cm
   b. Oklahoma City to Nashville, Tennessee: _____ cm
   c. Nashville to Augusta, Maine: _____ cm

4. Find the total length of the 3 lines for each trip. Represent the total with an equation.

   a. Lin's total

   b. Diego's total

   c. Noah's total

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?