Rolling Dice

Austin rolled six 4–9 dice. He arranged the dice and made these 3-digit numbers: 548 and 796.

1. What is the sum of Austin’s numbers? Use the strategy of your choice and show your work below.

2. What is the difference between Austin’s numbers? Use the strategy of your choice and show your work below.

3. What is the largest 6-digit number Austin can make with the numbers he rolled?

4. What is the smallest 6-digit number Austin can make with the numbers he rolled?

5. Austin rolled the dice again. This time he made these numbers: 467 and 594. Austin says he can add 460 and 601 and get the same sum as 467 and 594. Do you agree or disagree? Why?

6. Austin says he can find the difference between 467 and 594 by finding the difference between 473 and 600. Do you agree or disagree? Why?