

# Two Dice

Name \_\_\_\_\_

1. If you rolled two dice at the same time and summed the numbers, what sums could you get? \_\_\_\_\_

Would they be equally likely? \_\_\_\_\_ If not, which one or ones would be most likely? \_\_\_\_\_  
Least likely? \_\_\_\_\_ Explain your answers. \_\_\_\_\_

2. Suppose that one die is red and the other is green. Make a chart to show all the pairs of numbers that could occur if you rolled the two dice. What sums would those pairs generate?

3. If you rolled one die, recorded the result, tossed the same die again, recorded the result, and then summed the two numbers, what sums could you get? \_\_\_\_\_

Would they be equally likely? \_\_\_\_\_ If not, which one or ones would be most likely? \_\_\_\_\_  
Least likely? \_\_\_\_\_ Explain your answers. \_\_\_\_\_

4. Show all the pairs of numbers that could result if you rolled the same die twice. What sums would those pairs generate?

# Two Dice (continued)

Name \_\_\_\_\_

5. How are the pairs of numbers you showed in questions 2 and 4 alike? \_\_\_\_\_

How are they different? \_\_\_\_\_

6. Suppose that you—

- rolled one die, doubled the value of the result, and recorded that number, and
- rolled the die again and added the number to the number you just recorded.

What values could result?

Are these values equally likely? \_\_\_\_\_ If not, which one or ones are most likely? \_\_\_\_\_

Least likely? \_\_\_\_\_ Explain. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

