Name Answer Key Date _____

Homework #78 – Theoretical Probability

Directions: Use a number cube to determine the theoretical probability of the event. Then describe the likelihood of the event occurring.

1, 2, 3, 4, 5, 6

1) P(Rolling a 2)

$\frac{1}{6}$ unlikely

2) P(Rolling a 5)

$\frac{1}{6}$ unlikely

3) P(Rolling an even number)

$\frac{3}{6}$ equally likely

4) P(Rolling a number greater than 1)

$\frac{5}{6}$ likely

5) P(Rolling a number less than or equal to 3)

$\frac{3}{6}$ equally likely

6) P(Rolling a number greater than 7)

$\frac{0}{6}$ impossible

7) P(Rolling a composite number)

$\frac{2}{6}$ unlikely

8) P(Rolling a prime number)

$\frac{3}{6}$ equally likely

9) P(Rolling a perfect square)

$\frac{2}{6}$ unlikely