 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Probability

Experimental/Theoretical and Likelihood

I. Color in the box on the probability scale below beside the percentage that you think represents your choice for each event.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | #1 | #2 | #3 | #4 | #5 | #6 | #7 |
| 100% |  |  |  |  |  |  |  |
| 90% |  |  |  |  |  |  |  |
| 80% |  |  |  |  |  |  |  |
| 70% |  |  |  |  |  |  |  |
| 60% |  |  |  |  |  |  |  |
| 50% |  |  |  |  |  |  |  |
| 40% |  |  |  |  |  |  |  |
| 30% |  |  |  |  |  |  |  |
| 20% |  |  |  |  |  |  |  |
| 10% |  |  |  |  |  |  |  |
| 0% |  |  |  |  |  |  |  |

1. You will wake up tomorrow.
2. You will love your dinner tonight.
3. You will eat breakfast tomorrow.
4. You will have a quiz or test either this week or next week.
5. You will win a trip to New Zealand this year.
6. An event A is an impossible event. What is its probability?
7. A teacher choosing a boy from a class of 9 girls and 9 boys.

II. Make a probability line below and place the 7 events above on your line.

III. Explain the difference between experimental and theoretical probability. Include:

1. Definitions of each term
2. An example of each term
3. Explain the biggest difference between the two.

