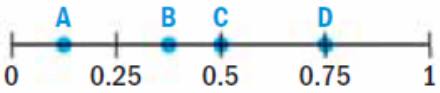
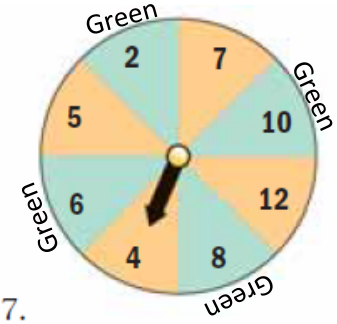
13.1a Theoretical Probability Name _____

Page 684 #3-10 all, 15 – 20 all

Note: PRIME numbers include: 2, 3, 5, 7, 11, 13

MATCHING You spin the spinner at right, which is divided into equal parts. Match the event with the letter on the number line that indicates the probability of the event.





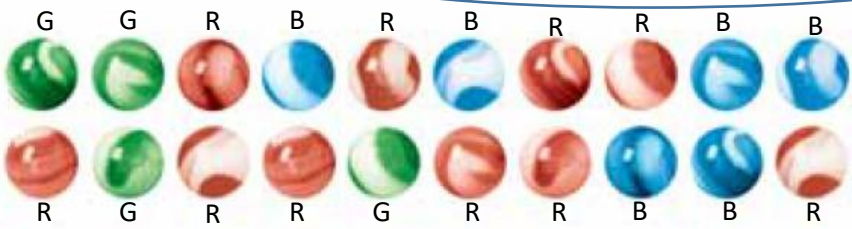
3. Pointer lands on green.

4. Pointer lands on 7.

5. Pointer lands on an even number.

6. Pointer lands on a prime number.

THEORETICAL PROBABILITY You randomly choose a marble from the marbles below. Find the probability of choosing a marble of the given color. Write the probability as a fraction, a decimal, and a percent.



7. Blue

8. Red

9. Green

10. Yellow

More on the back

THEORETICAL PROBABILITY **You roll a number cube. Find the probability of the event. Write the probability as a decimal rounded to the nearest hundredth. Predict the number of times the event will occur in 200 rolls.**

15. You roll a 3 or a 6.

Probability(decimal) Prediction out of 200 rolls

16. You roll a 9.

Probability(decimal) Prediction out of 200 rolls

17. You roll a positive number.

Probability(decimal) Prediction out of 200 rolls

18. You roll a prime number.

Probability(decimal) Prediction out of 200 rolls

19. You roll a multiple of 2.

Probability(decimal) Prediction out of 200 rolls

20. You roll a number less than 4.

Probability(decimal) Prediction out of 200 rolls