

Algebra 1
Chapter 11 Review

Name: _____

1. You have 22 red gumballs, 16 blue gumballs, 7 yellow gumballs, and 11 orange gumballs in a bag.	
a. What is the probability that you choose a yellow gumball?	b. What is the probability that you choose a gumball that is not red?
c. What is the probability that you choose a yellow or an orange gumball?	d. What is the probability that you choose a pink gumball?
e. What are the odds of choosing an orange gumball?	f. What are the odds that you choose a gumball that is not red?

2.
Number Cube What is the probability that you will roll an even number on a toss of a six-sided number cube? What are the odds?

3.
Number Cube What is the probability that you will roll a number greater than 2 on a toss of a six-sided number cube? What are the odds?

4.
Raffle Tickets You buy 5 raffle tickets. What is the probability that you will win if 400 tickets were sold? What are the odds?

5.

A group of 220 students were asked to name the sport they most like to attend.

The results are shown in the table below.

<i>Sport</i>	Basketball	Soccer	Football	Baseball	Volleyball	Wrestling	Hockey
<i>Number</i>	40	20	50	55	10	10	35

a. What is the probability that a student named hockey?

b. What are the odds that a student named football?

c. What is the probability that a student named a sport that starts with the letter B?

d. Is this experimental or theoretical probability?

6. The probability that you will be chosen to win a car is 12%. What are the odds that you will win the car?

7. You flipped a coin 10 times. 7 out of the 10 times, it landed on heads.

a. What is the theoretical probability that the coin will land on heads?

b. What is the experimental probability that the coin will land on heads?

Use the following data set for #8 - #11: **12, 28, 32, 15, 17, 44, 51, 63, 22, 38, 28**

8. Find the measures of central tendency.

a. Mean

b. Median

c. Mode

9. Make a stem and leaf plot.

10. Make a box and whisker plot.

Least = _____

Quartile 1 = _____

Quartile 2 = _____

Quartile 3 = _____

Greatest = _____

11. What is the range of the data?

Use the following data set for #12 - #15: **33, 20, 18, 56, 25, 32, 43, 55, 51, 68**

12. Find the measures of central tendency.

a. Mean

b. Median

c. Mode

13. Make a stem and leaf plot.

14. Make a box and whisker plot.

Least = _____

Quartile 1 = _____

Quartile 2 = _____

Quartile 3 = _____

Greatest = _____

15. What is the range of the data?