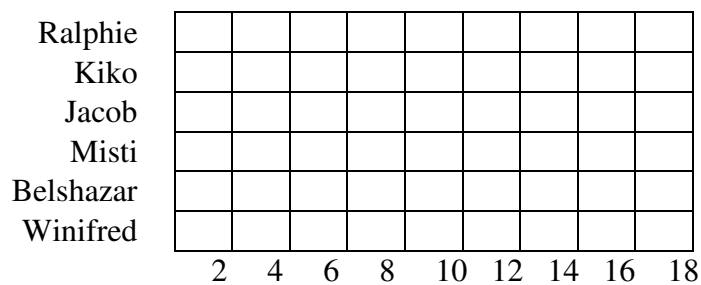


## Chapter 10 Practice Test

Find the mean, median, mode and range for the following math test scores: 85, 78, 94, 89, 94.

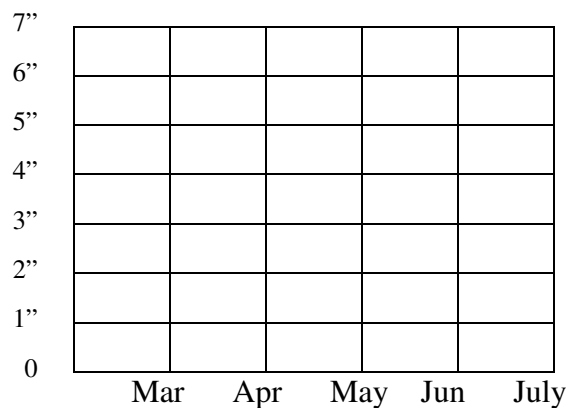
1. Mean
2. Median
3. Mode
4. Range
5. Make a bar graph to show how far each person hopped on one foot

Ralphie – 6 ft; Kiko – 12 ft; Jacob – 15 ft, Misti – 11 ft, Belshazar – 4 ft; Winifred – 12 ft



6. Make a line graph for the monthly rainfall totals.

March – 3 inches; April 5 ½", May – 2", June – 4", July 1 ½"



7. You are going to make a pie chart to represent these data. Calculate the number of degrees for each section of the pie.

Transportation to Work

|         |     |
|---------|-----|
| Car     | 60% |
| Bus     | 25% |
| Bicycle | 10% |
| Walk    | 5%  |

8. You want to go out to eat and then see a movie. If these are your choices of places to eat and movies to see, how many different ways can dine out and see a movie?  
 Restaurants: Taco Cabana, Pizza Hut, Whataburger, Panda Express, Granzin's  
 Movies: Raya and the Last Dragon, Tom & Jerry, The Empire Strikes Back

9. Using the letters in the word O R A N G E , how many ways can you:

- Arrange all the letters in a line
- Arrange 4 of the letters in a line
- Arrange a vowel first and then two consonants

10. Find the value of

- |              |              |
|--------------|--------------|
| a. $5!$      | c. $3!$      |
| b. ${}_8P_3$ | d. ${}_4P_4$ |

11. Write the expression using factorials:  $9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1$

A box has 12 socks in it: 3 white, 8 blue, 1 brown. For each problem, indicate HOW MANY socks you are taking out of the box. Once you taken a sock out, won't put it back in the box during that problem. Find the probability of making each selection.

|     | Selection                        | No. of socks | Probability |
|-----|----------------------------------|--------------|-------------|
| 10. | P(a white sock)                  |              |             |
| 11. | P(a blue sock)                   |              |             |
| 12. | P(a white or blue sock)          |              |             |
| 13. | P(a white or brown sock)         |              |             |
| 14. | P(a white, then a brown sock)    |              |             |
| 15. | P(a blue, then a white sock)     |              |             |
| 16. | P(a white or blue or brown sock) |              |             |
| 17. | P(a green sock)                  |              |             |