

Answer Key

Name _____
Teacher _____

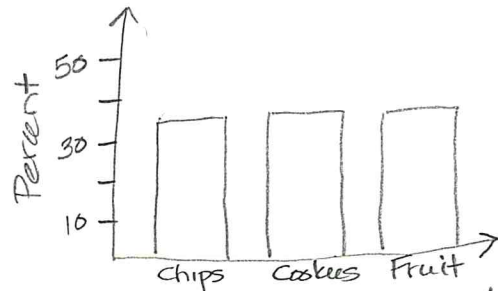
Date _____

6th Grade Math (Statistics) Enrichment #3 (Lesson 27-3)

Ready:

1. Mr. Clark wants to bring a snack for his class on Friday. He has asked the class about favorite snacks. Their answers are listed below.

Chips	Fruit	Fruit
Chips	Cookies	Chips
Cookies	Chips	Cookies
Fruit	Chips	Fruit
Fruit	Fruit	Chips
Cookies	Cookies	Chips
Cookies	Cookies	Fruit



- (a) What type of graph can be used to display the data? *Percent bar graph*
 (b) Create the graph for the class snack data. *(see above)*
2. Does the graph help Mr. Clark decide which snack to bring? Why or why not? *No, because 7 students voted for each snack; there was a 3-way tie.*
3. Describe the distribution of data for Mr. Clark's class.
The data is evenly distributed.

Set:

4. On a bicycle Jack can travel 20 miles in 4 hours. What are the unit rates in this situation, (the distance Jack can travel in 1 hour and the amount of time required to travel 1 mile)?

$$\frac{20 \text{ mi}}{4 \text{ hrs}} \div 4 = \frac{5 \text{ mi}}{1 \text{ hr}} \text{ unit rate} \quad \frac{4 \text{ hrs}}{20 \text{ mi}} \div 20 = \frac{1}{5} \text{ hr}$$

5. Compare the number of black circles to white circles. If the ratio remains the same, using a tape diagram, how many black circles will there be if there are 60 white circles? *80*

4 black ; 3 white
20 x 80 black ; 60 white

black
white

6. (a) What percent is 12 out of 25? $\frac{12}{25} \cdot \frac{4}{4} = \frac{48}{100} = 48\%$
- (b) What is 40% of 30? $0.4(30) = x$ *x = 12*
- (c) If 20% of the students in Mrs. Maguire's class like chocolate ice cream, then how many students are in Mrs. Maguire's class if 6 like chocolate ice cream?

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$$\frac{20}{100} = \frac{6}{x} \quad x = \text{total \# of students}$$

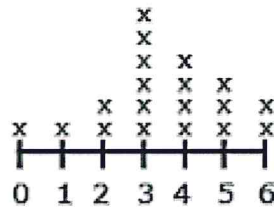
$$20x = 600$$

$$x = 30$$

Go:

7. The dot plot below shows the writing scores for a group of students for organization. Describe the data.

The data is skewed right. The majority of students ($\frac{15}{19}$) earned a score of 3 or more. Six students earned a 3 on the rubric.



8. Grade 6 students were collecting data for a math class project. They decided they would survey the other two grade 6 classes at their school to determine how many DVDs each student owns. A total of 48 students were surveyed. The data are shown in the table below in no specific order. Create a data display. What are some observations that can be made from the data display?

11	21	5	12	10	31	19	13	23	33
10	11	25	14	34	15	14	29	8	5
22	26	23	12	27	4	25	15	7	
2	19	12	39	17	16	15	28	16	

