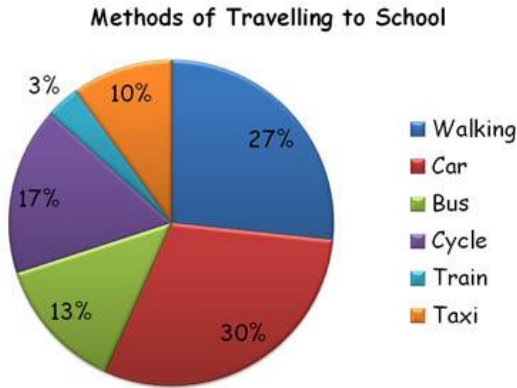


NAME: *Key*

UNIT 10 – PRE-ASSESSMENT

1. The pie chart below represents the various methods of transportation that CPS students use to get to school. Determine the following from the pie chart:



1. If there were 50 students, how many students would you expect to arrive at school by bus?

*~ 6.5  
6-7 students*

2. If there were 200 students polled, how many students would you expect get to school by walking or taking the train?

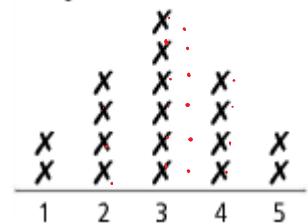
*27 + 3 = 30  
30 x 2 = 60*

2. Calculate the mean, median, and mode of the data set.

*1 1 2 2 2 2 3 3 3 | 3 3 3 4 4 4 4 5 5*  
*3*

*med: 3  
mode: 3  
mean:  $\frac{54}{18} = 3$*

Televisions per Household



3. Answer the questions using the frequency table.

a. How many of the total students surveyed are females?

*16/27*

b. How many of the females are sophomores?

*9/16*

	Fresh.	Soph.	TOTAL
Males	<i>9</i>	<i>2</i>	<i>11</i>
Females	<i>7</i>	<i>9</i>	<i>16</i>
TOTAL	<i>16</i>	<i>11</i>	<i>27</i>

4. Out of a standard deck of cards, what is the theoretical probability of choosing a queen?

$$\frac{4}{52}$$
$$7.67\%$$

5. Mrs. Berenson did an experiment and her results are shown below. What is her experimental probability of choosing a queen?

Ace	1
King	2
Queen	1
Jack	3
Total:	25

$$\frac{1}{25} = 4\%$$

6. What is the probability of rolling a one on a die?

$$\frac{1}{6} = 16.67\%$$

7. Out of a standard deck of cards, what is the probability of drawing an ace AND THEN a jack? (without replacement)

$$\frac{4}{52} \cdot \frac{4}{51} = \frac{16}{2652} = \boxed{.6\%}$$