

Lesson 7: Classwork/Homework

1) Circle the table that will be more helpful in finding whether male or female teenagers are more likely to own a car.

Frequency Table
Car Ownership

	Yes	No	Total
Male	49	126	175
Female	48	102	150
Total	97	228	325

Total Relative Frequency Table
Car Ownership

	Yes	No	Total
Male	28%	72%	100%
Female	32%	68%	100%
Total	29.8%	70.2%	100%

Justify your answer: _____

2) Fifty moviegoers were surveyed about their favorite movie types.

- 13 men and 6 women chose “Action” as their favorite type.
- 8 men and 8 women chose “Drama” as their favorite type.
- 5 men and 4 women chose “Comedy” as their favorite type.
- 4 men and 2 women chose “Animated” as their favorite type.

Draw a two-way frequency table using the above data. Use the table to determine the most popular type of movie in the survey.

	Action	Drama	Comedy	Animated	Total
Men					
Women					
Total					

Which type of movie surveyed is most popular? _____

3) The frequency table shows the hair and eye color of 25 students. Is there evidence that blue eyes are more common for students with blond hair than those with black hair?

Write a valid conclusion. _____

	Blond	Black	Brown	Total
Blue	3	1	2	6
Brown	2	7	6	15
Green	1	1	2	4
Total	6	9	10	25

	Blond	Black	Brown	Total
Blue				
Brown				
Green				

4) Complete the table.

	Football	Baseball	Total
Coaches	5	7	12
Players		6	
Total	12		

5) How many coaches participated in the survey?

6) How many players participated in the survey?

7) Which sport is more popular among the coaches?

8) Which sport is more popular among the players?

9) Twenty students were surveyed about their favorite subject. Below are the results.

- 3 boys and 4 girls chose Math
- 2 boys and 3 girls chose Science
- 1 boys and 2 girls chose ELA
- 3 boys and 2 girls chose History

Construct a two-way frequency table for the data.

	Math	Science	ELA	History	Total
Boys					
Girls					
Total					

10) According to the table, what is the least popular subject? _____

11) Construct a two way relative frequency table based on percent

	Math	Science	ELA	History
Boys				
Girls				
Total				

	For	Against	Total
Parents	.42	.07	.50
Teens	.18	.32	.50
Total	.61	.39	1.00

12) The two- way shows the results of a survey about whether students should be required to wear school uniforms. According to the table, what percent of teenagers are in favor of wearing school uniforms?

13) If 300 parents were surveyed, how many were for wearing uniforms?