

Chapter 5 Homework

Name: _____

1. The table below lists the numbers of majors enrolled in two sections of a PSYC 110 (Fundamentals of Psychology) class in the fall 2008 semester. Create a bar graph, properly labeled, in the space to the right.

Major	f
Undeclared	31
Communications	6
History	2
English	4
Counseling	3
Education	11
Biology	7
Criminal Justice	3
Political Science	2
Business	3
Occupational Therapy	7
Psychology	1

2. A survey asked each participant to rate how much they agreed with the Democratic party on a scale ranging from -3 to +3. The frequencies of each rating given for $N = 177$ participants are listed below.

Rating:	-3	-2	-1	0	+1	+2	+3
Frequency:	$f = 5$	$f = 19$	18 =	$f = 43$	$f = 39$	$f = 49$	$f = 4$

2a. What type of data is “agreement with the Democratic party” being measured on?

2b. What type of a graph should you use to plot these frequency data? Construct that graph below.

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3. A survey examined the number of hours per month that college students devote to volunteer work. The frequencies for the number of hours students spend doing volunteer work are presented below separated by class. Create a frequency polygon that plots the frequencies for the numbers of hours studied separately for each class (i.e, there will be four polygon lines in the one graph).

Hours	Freshmen	Sophomores	Juniors	Seniors
0	f = 21	f = 12	f = 3	f = 3
1	f = 12	f = 10	f = 5	f = 7
2	f = 5	f = 8	f = 7	f = 10
3	f = 3	f = 12	f = 8	f = 20
4	f = 2	f = 7	f = 20	f = 9
5	f = 1	f = 6	f = 18	f = 7
6	f = 1	f = 3	f = 5	f = 2

When you are finished with the graph, describe the differences in the four polygon lines. What differences are there in the frequencies for each class? Why might this be the case?