

Statistics 101 – Homework 1

Due Wednesday, September 2, 2009

Homework is due on the due date at the end of the lecture.

Reading: August 26 – August 28 Chapters 2 & 3
August 31 – September 4 Chapter 4

Assignment:

1. Do the following problems from the text, *Intro Stats*, 3rd Edition. If you have an earlier edition of the text, check with someone who has the 3rd Edition to make sure you do the correct problems.
 - Chapter 2 – problems 2, 3, 7, 13, and 14
 - Chapter 3 – problems 5, 7, and 17
2. The Motion Picture Association of America (MPAA) rates movies as G – General Audiences (all ages admitted), PG – Parental Guidance Suggested (some material may not be suitable for children), PG-13 – Parents Strongly Cautioned (some material may be inappropriate for children under 13), R – Restricted (under 17 requires accompanying parent or adult guardian) and NC-17 – No One 17 and Under Admitted. Movies can also be classified by genre. Below are data on 120 movies released in 2005.

Genre	MPAA Rating				Total
	G	PG	PG-13	R	
Action/Adventure	4	5	17	9	35
Comedy	2	12	20	4	38
Drama	0	3	8	17	28
Thriller/Horror	0	0	11	8	19
Total	6	20	56	38	120

- a) Identify the Who for this data set.
- b) Identify the two variables (the Whats) collected on each Who.
- c) Create an appropriately labeled bar chart for MPAA Rating. Use a percentage scale. What does the bar chart indicate about movies that are suitable for children?
- d) Find row percentages. Create a graphical display of the row percentages.
- e) What do these percentages indicate about the relationship between movie genre and MPAA Rating?