STATISTICS
Snowday Lesson #3

NAME_____

Five hundred randomly selected middle-aged men and five hundred randomly selected young adult men were rated on a scale from 1 to 10 on their physical flexibility, with 10 being the most flexible. Their ratings appear in the frequency table below. For example, 17 middle-aged men had a flexibility rating of 1.

FlexibilityData

	FlexRating	MiddleAgedMen	YoungAdultMen
1	1	17	4
2	2	31	17
3	3	49	29
4	4	71	39
5	5	70	54
6	6	87	69
7	7	78	83
8	8	54	93
9	9	34	73
10	10	9	39

1. Display these data graphically using frequency polygons placed on the same graph so that the flexibility of middle-aged men and young adult men can be easily compared. Make sure that your graph is extremely neat and all axes are labeled correctly. Use a solid line for the middle-aged men and a dashed line for the young-adult men.
(10 points)

2. Based on examination of your graphical display, describe the best shape, center, and spread for the two distributions. You must explain why you chose what you did using **appropriate statistical terminology.**
   (10 points)