

10.3 Shapes of Distribution Honors

Name _____ Period _____

1. The frequency table shows the ages of the members of two local fitness clubs.

Ages of Members	18–25	26–33	34–41	42–49	50–57	58–65
Frequency for Fitness Club A	14	19	13	8	6	3
Frequency for Fitness Club B	4	9	12	13	8	5

a. Display the data for each fitness club in two histograms. Include a title and label both the x and y axis. Describe the shape of each distribution.

b. Which fitness club would appeal more to a young adult? Explain.

2. The frequency table shows the numbers of books read this month for the students in your class and the students in your friend's class.

Number of Books Read This Month	0	1	2	3	4	5
Your Class	0	3	6	8	7	6
Your Friend's Class	6	10	7	5	1	1

a. Display the data for each class in a dot plot. Describe the shape of each distribution.

b. Which class read more books? Explain.

c. Which class has a greater mean? Explain.

d. Which class has a lesser mode? Explain.