

Task #1:

The following are the Olympic medal counts for the top countries in the 2004 Summer Olympics: 100, 92, 63, 50, 49, 37, 33, 32, 30, 30, 27, 23, 22, 19, 19, 17, 16, 15, 12, 12, 10, 10, 10. Taken from: http://en.wikipedia.org/wiki/2004_Summer_Olympics_medal_table

Create the following data displays using the data.

1. A frequency table with 6 classes.
2. Add a column to your frequency table to show the relative frequencies.
3. Construct a cumulative frequency table based on the frequency table from #1.
4. Use your frequency table from #1 to create a histogram of the data.
5. Create a stem-and-leaf plot of the data.

Use your frequency table from #1 to answer the following questions.

1. What is the lower class limit of the 3rd class?
2. What is the class midpoint of the 1st class?
3. What is the upper class boundary of the 6th class?
4. What is the mean of the data (using the frequency table, not the original data set)?

Task #2:

A survey yielded the following results about eye color: 12 Blue, 5 Green, 20 Brown, and 8 Hazel. Create the following data displays using the data.

1. A pareto chart
2. A pie chart

Task #3:

Use the sample data to find each of the requested values.

62, 52, 52, 52, 64, 69, 69, 76

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|---------------------|-------|-----------------------------|-------|
| 1. \bar{x} (mean) | _____ | 2. \tilde{x} (median) | _____ |
| 1. Mode | _____ | 4. Midrange | _____ |
| 5. Range | _____ | 6. s (standard deviation) | _____ |

x	f
41-50	2
51-60	1
61-70	5
71-80	12
81-90	8
91-100	4

Use the frequency table to find each of the requested values.

1. \bar{x} (mean) _____

