

GRAPHING PRACTICE

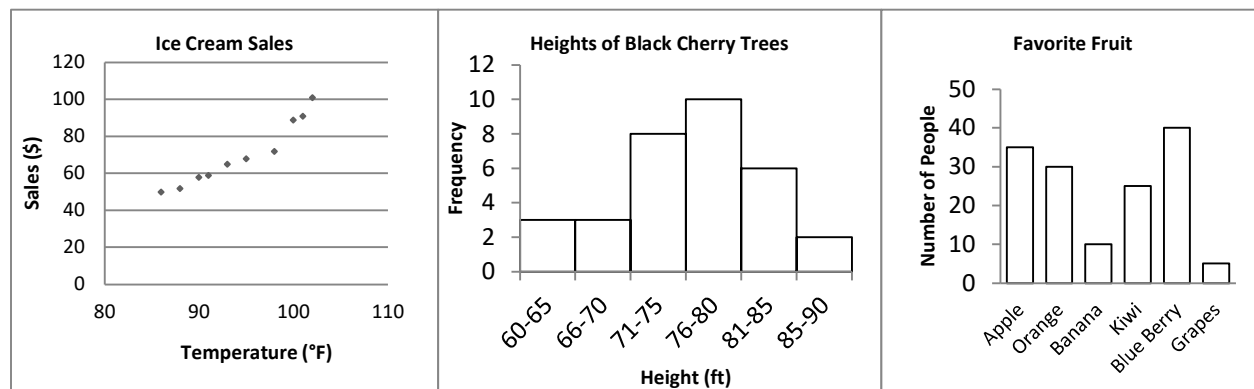
ACTIVITY (25 PTS)

BACKGROUND

GRAPHING GUIDELINES

Graphs *should*:

- be on graph paper
- be **scatterplots** if *two numeric variables* were measured
- be **histograms** if *groups of data points* fall into specific ranges.
- be **bar graphs** if one *category variable* is counted.
- have the **independent variable** graphed on the **x-axis**, the **dependent variable** on the **y-axis**.
- have titles
- fill the available space on the paper



SCATTER PLOT

HISTOGRAM

BAR GRAPH

Note that histograms do NOT have gaps between the bars but bar graphs DO have gaps.

Axes *should*:

- be drawn with a **ruler**
- have **labels**, with units
- have **uniform scales**
- usually **start at zero**
- **NOT have breaks** in the scale.

GRAPHING

Directions: Graph each of the data sets. Make sure you use the proper graph type and follow the guidelines for good graphing.

1. A survey of student's favorite after school activities was conducted. Here are the results: (5pts)

Activity	Number of Students
Play sports	450
Shopping	403
Visit with friends	270
Watch TV	185
Chat online	390
Read a book	230
Work at a job	205

2. Marketing data for soft drink sales are below: (5pts)

Company	Cases sold in million, 2010	Market share % in 2010
Coca-Cola	4377.5	44.1
Pepsi-Cola	3119.5	31.4
Dr Pepper / 7-Up	1455.1	14.7
Cott	310.0	3.1
National Beverage	205.0	12.1
RC	115.4	1.2
Other	347.5	3.4

3. John's mother measured his height each year on his birthday. The data are below: (5pts)

Year	Height in inches
1990	15
1991	20
1992	24
1993	30
1994	33
1995	35
1996	39

4. SAT scores for several students are in the table below: (5pts)

V	M	V	M	V	M	V	M
650	600	500	525	580	730	700	800
420	470	600	580	720	720	780	690
490	530	380	400	210	340	710	750
530	550	550	530	610	600	710	700

V = Verbal M = Math

NAME: _____ DATE: _____ PERIOD: _____

5. Semester one grades in Algebra I are in the table below: (5pts)

%	Number of students
0-49	2
50-54	1
60-64	10
65-69	8
70-74	27
75-79	35
80-84	37
85-89	25
90-94	27
95-100	15