Section 2.1 Extra Practice

1. Determine the mode, median, and mean for each data set.
   a) 36, 31, 47, 52, 29, 47, 56, 66, 45, 46
   b) 205, 201, 213, 202, 205, 211, 205, 202, 209, 204
   c) −8, −5, −2, −3, −7, −5, 1, −11

2. Determine the mode and median for each data set.
   a)

Stem (tens)	Leaf (ones)
1	1 7 5
2	0 8 7 2 3
3	9 1 1 6 2
4	2 0 1

   b)

Size	Frequency
5	3
6	12
7	15
8	13
9	8

3. The mode of each data set is 40. Determine the missing value.
   a) 63, 41, *n*, 52, 55, 40, 46
   b) 37, 55, 40, 37, 52, *n*, 40, 45

4. A swimming coach orders team suits. These sizes are needed: 6, 14, 12, 10, 8, 4, 8, 10, 8, 6, 12, 8, 8, 10, 8, 12, 6, 10.
   a) Create a frequency table to show the data.
   b) What is the mode for the data set?
   c) Is the mode the best way to represent the typical suit size worn by a swimmer? Explain.

5. Nine coyotes were caught last season by wildlife officers. Their weights in kilograms were 22, 25, 31, 27, 26, 28, 28, 32, 25.
   a) Arrange the data in a stem-and-leaf plot.
   b) What is the median weight?
   c) Suppose a tenth coyote weighing 30 kg was caught at the end of the season. What is the new median?

6. Calculate the missing values to find the weighted mean.

Value, x	Weighting, w (%)	Product of Value and Weighting, wx
63	40	
60	35	
52	15	
84	10	
Totals		

Name: _____   Date: _____

7. A school is having a recycling fundraiser. The table shows how many used containers each grade collected.

Grade	Number of Students	Total Collected
7	300	30
8	295	25
9	280	32
10	310	28
11	325	27
12	290	27

a) Which grade collected the most used containers?

b) What is the mean number of containers collected for each student in each grade? Round to the nearest whole number.

c) Which grade should win the prize for the most used containers collected? Explain your choice.

8. Kyle worked the following number of hours per week at his summer job.

Week	Hours Worked
1	38
2	30
3	36
4	34
5	n

The mean for the five weeks was 35 hours. How many hours did Kyle work during the fifth week?

9. Gerard's and Mary's final marks are shown in the table.

Class	Gerard's Mark (%)	Mary's Mark (%)
English	80	70
Math	75	80
Chemistry	85	75
History	90	85
Phys. Ed.	85	95

a) Calculate each student's average.

b) Use the following weighting to recalculate each student's average.

Class	Weighting
English	3
Math	3
Chemistry	2
History	2
Phys. Ed.	1