

Math 13 Chapter 3 Overview Problems

1) The temperature in Salinas was measured every hour for 24 hours.

39° , 38° , 37° , 37° , 36° , 36° , 37° , 39° , 41° , 43° , 46° , 49° , 51° , 54° , 59° ,
 60° , 62° , 61° , 59° , 55° , 51° , 45° , 44° , 43°

a) Find the mean, median, mode and midrange for this data.

b) Find the range, standard deviation and variance.

c) Find the temperature at the 28th percentile.

d) What percentile is the temperature 37° .

e) Create a boxplot for this data.

f) Find the z-score for the temperature 59° .

g) Assuming that temperatures have a normal distribution, what are the cutoffs for temperatures that are considered unusual?

2) Below is a frequency table for the ages of students in a Statistics class.

Age	Frequency
17-19	12
20-22	15
23-25	8
26-28	5
29-32	2

Find the mean age for the students, based on this table.