Math 243 – Hand in Homework 1   Name:

Consider the data for the car repair bills charged for a week at Dave's Import Service.

1. Use Excel to create and insert an attractive bar graph from excel with 5 classes.

$76.52
$145.18
$156.66
$228.50
$257.35
$286.32
$327.95
$335.47
$356.25
$365.36
$425.10
$454.60
$480.57
$483.22
$496.35
$545.35
$554.80
$623.20
$632.10
$650.00
$688.12
$776.21
$787.56
$887.92
$995.75
$1,244.80
$1,456.80
$1,565.87
$2,180.00

2. Make a 5-number summary from the list on this page.

Use your graphing calculator for questions 3-4.

3. Find $\bar{x}$ (mean)

4. Find σ (population standard deviation)

Show your calculations for questions 5-6.

5. Calculate the upper and lower fences and list any outliers

6. If your bill was $1,565.87 … find your z-score