

Answers to selected questions for the Review for Test -1

Question 2) Mean = 67.58, Median = 65 IQR = 81 - 55 = 26

Question 3) b) Mean = 51, SD = 10.64

c) It is not appropriate because; based on the histogram for part (a) the shape of the distribution is skewed to the right.

d) Shape: skewed to the right Center: Median = 50.5

Spread: IQR = 14 Unusual features: No outliers.

Question 4) 90.4%

Question 5) Since the mean is approximately equal to the median, the shape is approximately symmetrical.

Question 6) The SD = 8.01 (need to show steps)

Question 7) IQR = 85.12 - 64.88 = 20.24

Question 8) Min = 60, $Q_1 = 65$, Med = 67, $Q_3 = 71$, Max = 75 (use your calculator)

Question 9) a) 56.86% b) 38.95% c) 41.08% d) 59.98%

Question 10) Milk consumption

Yes	1222	56.9%
No	927	43.1%
Total	2149	100%

Question 11) NO, the milk consumption is declining

Question 12) a) class size 40 is repeated for Q_1 through maximum.

b) No, the lower Fence is at 12.5 therefore, class size 20 is within the fences.

c) Median = \$36.75 IQR = \$8.25

d) Mean = \$37.04 SD = \$4.25