

Answers to practice problems

Please, note that these are answers only and graphing questions don't have an answer here. In some of the problems you would also need to show your work to get a full score.

1. - 1| 3 5 6
2| 3 7 8 9
3| 1 4
4| 2 8
5| 1
6| 0

- regular, right-skewed
- 13 19.5 29 45 60
- because the distribution is skewed
- the boxplot shows: distribution for diseased patients is slightly less spread out (more concentrated); it has higher center (median); the central half of data (box) and the minimum also lie at higher values; but the maximum value for the sick patients is about the same as for the healthy ones
- yes, because all summaries for the box plot indicate higher NN level for the patients with the disease

2. – Means: 26.4; 1.82

- Standard deviations: 7.09; 0.3
- correlation (r): -0.98
- negative association, because r is negative and close to -1
- $y = -0.0419x + 2.9274$
- No, the graph and the r value show a strong linear relationship between the two, but that does not imply any causal relationship. Moreover, it would be hard to justify the statement from only 5 data points
- 2.1

3. - 42.07% or .4207

- 11.91% or .1191
- 3200 g
- 3400 g