

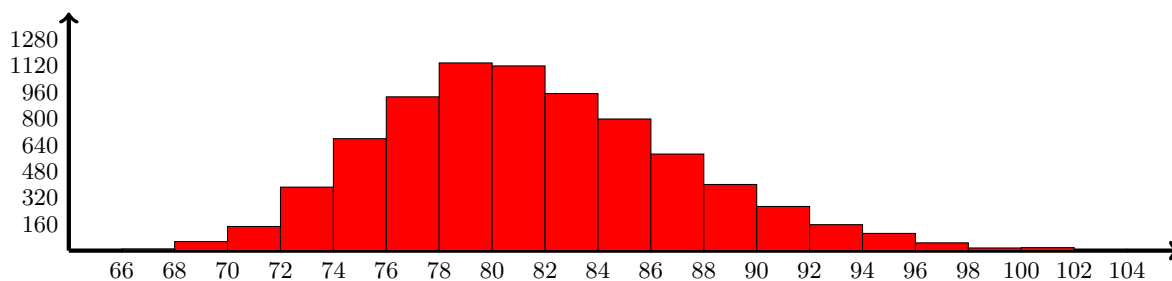
## Quiz 3A

Name: **Answer Key**

UAlbany Email:

Closed book/notes. Scientific calculators only. For all free-response questions, work must be shown to receive full credit.

- (3 pts.) The histogram shown below is of scores from the Town of Colonie Golfers' Loop, calendar-years 2015-2023.



Which of the following correctly describes the shape of the histogram?

- The histogram is unimodal and symmetric.
- The histogram is bimodal and symmetric.
- The histogram is unimodal and positively skewed (skewed to the right).**
- The histogram is unimodal and negatively skewed (skewed to the left).
- None of the above are true.

Questions 2-4 will reference the data below:

72                  74                  75                  71                  78                  73                  75

- (1 pt.) Fill in the blank. The data set has  $n =$  7 observations.
- (3 pts.) Compute  $\bar{x}$ . **Award two points for the correct work (one point for each part of the fraction), and award one point for the correct answer.**

$$\bar{x} = \frac{72 + 74 + 75 + 71 + 78 + 73 + 75}{7} \quad (1)$$

$$= 74. \quad (2)$$

- (3 pts.) Find the median of the data. **Award one point for each of the following:**
  - The student correctly sorted the data set as 71, 72, 73, 74, 75, 75, 78.
  - The student correctly identified the median as 74.
  - The student either crossed out all observations other than 74 or used  $(n + 1)/2$  to show the median was the 4th observation in the sorted list.

Grade:                  /10