Measures of Spread P-Set

The following are stock prices for Amazon during the last two weeks of July 2022. Round your answers to 2 decimal places.

- 1. What is the mean of the stock prices?
- 2. What is the range of stock prices?
- 3. What is the population standard deviation?
- 4. What is the population variance?
- 5. What is the sample standard deviation?
- 6. What is the sample variance?
- 7. Using your answers from questions 1 and 5, find the minimum and maximum "usual" stock price values.
- 8. Are there any stock prices that would be considered "unusual"? If so, which one(s)?
- 9. What is a good consequence of owning a stock with a high standard deviation?
- 10. What is a bad consequence of owning a stock with a high standard deviation?

The heights of a group of professional basketball players is given. Round your answers to 1 decimal place.

Height	Frequency
70 – 71	3
72 - 73	7
74 – 75	16
76 – 77	12
78 - 79	10
80 - 81	4
82 - 83	1

- 11. Estimate the mean height of this group of basketball players.
- 12. Estimate the sample standard deviation of this group of basketball players.
- 13. What are the minimum and maximum "usual" heights of these basketball players?
- 14. Would any listed player's height in this group be considered "unusual"?

Key

- 1. 121.59
- 2. 21.19
- 3. 5.56
- 4. 30.96
- 5. 5.86
- 6. 34.40
- 7. Minimum = 109.87; Maximum = 133.31
- 8. 134.95
- 9. Answers vary
- 10. Answers vary
- 11. 75.8
- 12. 2.8
- 13. Minimum = 70.2; Maximum = 81.4
- 14. The player in the 82 83 height class