

Chapter 6 Review Exercises

- 1) False! Every measurement has some degree of chance error!
- 2a) If it is a cloth tape it could stretch and give shorter measurements than what is true. If the tape measure was made incorrectly that could bias a measurement.
- 2b) Cloth due to stretching.
- 2c) Yes, it would/could stretch more and more over time.
- 3a) False. Chance Error can be in any direction bias can only be in one direction.
- 3b) False. Same as a.
- 3c) True! $\text{Measurements} = \text{Truth} + \text{Bias} + \text{Chance Error}$.
- 4) .03 inches or so because that was normally how much you were off in the first three measurements.
- 5a) Everyone but Student 2 & 10 worked independently because their answers are all different. Student 2 and 10 made the same errors & had the exact same #'s listed.
- 5b) No one in the class measured the same thickness twice & each person's answers were different from others in the class.