

Math 29
Homework 3

Write a 1-3 sentence summary of what we did in class the previous period.

1. The price of a share of a particular stock rose by 10% on Monday. The price then fell by 10% on Tuesday to \$59.40 per share. What was the price of a share of the stock before trading began on Monday?
2. A sample thought to be caffeine is tested and the resulting composition was 53% carbon, 4% hydrogen, 30% nitrogen and 13% oxygen. However, it is known that one mole of caffeine contains 96.08 g carbon, 10.08 g hydrogen, 56.04 g nitrogen and 32.00 g oxygen. Was the sample really caffeine?
3. A student analyzing a sample for bromine (Br) makes four trials with the following results: 36.0, 36.3, 35.8, and 36.3. The theoretical value is 36.2. Calculate the mean, error, percent error, deviation, and percent deviation of the student's results.

In Section 1.5, do problems 4, 10, 12, 15. Be sure to show all of the steps of your work.