Chapter 4 and 9.4 Unit Test - Decimals and Mean, Median, and Mode
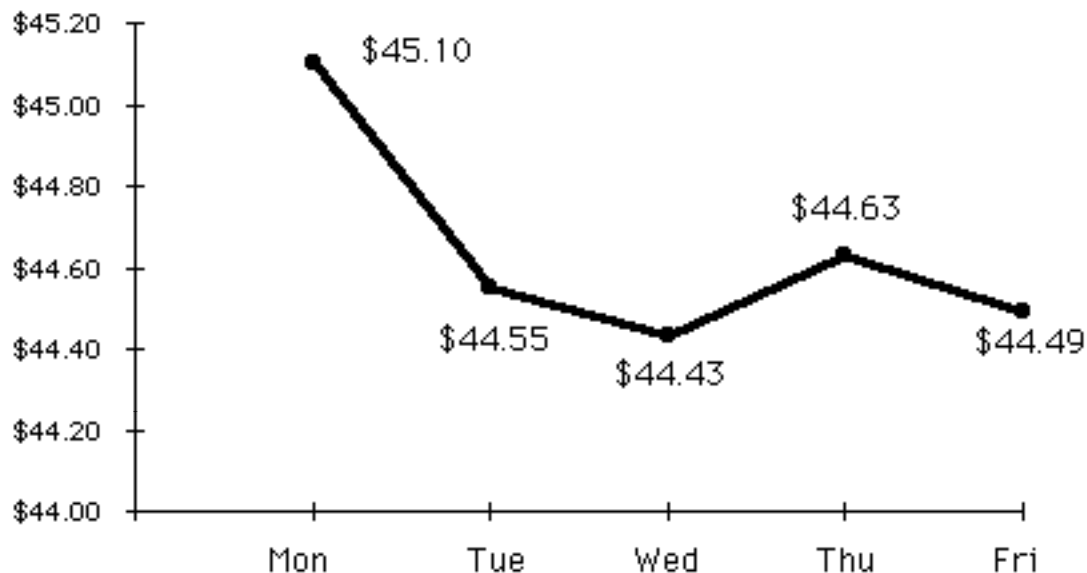
Name_____**Section**_____

Be sure to show all your work and circle your answer.

1a) Convert into a fraction or mixed number in lowest terms: 8.035
1b) Convert into a fraction or mixed number in lowest terms: 0.044

2) Convert into a decimal (show all work): $3\frac{5}{32}$

3) Convert into a decimal (show all work): $\frac{17}{11}$

4) Round $5.67832 to a) the nearest cent and b) the nearest dollar.

5) Round 78.45621 to a) the nearest thousandth, and b) the nearest tenth.

6) Find the sum of 78.95, 8.891, 14, 6.579, and 0.031 (show all work).

7) Estimate: 5.67 + 58.2 + 0.023.
8) Estimate: 0.4532 ÷ 0.23•5.2

9) Subtract 0.7834 from 9 (show all work).

10) Find the product of 78.36 and 0.234 (show all work).

11) Find 0.023 divided into 8.11992 (show all work).

12a) Find 0.98 ÷ 0.
12b) Find 0 ÷ 1.82.

13) Write 54,098.034 in words.

14) Evaluate: $4.8^{1} \div \sqrt{0.64} \div 0.2 - \frac{0.45}{1.5} + 0 \div 0.95(3.3)$

15) Evaluate: $(2.8 - \frac{13}{10})^{2} + \frac{9}{16} \div 0.25(\frac{3}{2}) + (0.5)^{0}$

16) On August 1, Mike has a balance of $6257.89 he owes on his visa credit card. During the month of August, he charges $234.13 in groceries, $121.58 in gas, and $137.34 in going out to eat and make a minimum payment of $187.74. If he also gets charged a late payment fee of $39 and an over the credit line fee of $39 and the interest is $175.79, find his balance at the end of the month.

17) When Simon filled his gas tank, the odometer read 23,845.6 miles. The next time he filled his tank, the odometer read 24,239.8 miles and it took 13.5 gallons of gas. How many miles per gallon did his car get?

Closing Price of Walmart's Stock for 8/14/06 - 8/18/06
Source: http://money.cnn.com

18) Find the mean, median, and mode of the closing price.

19) Determine which answers listed below are unreasonable to
4##2.6## ÷ 2#.8##
a)   3154   b) 32   c)   29   d) 315   e) 295

20) Arrange 0.3, 0.10, 0.3254, 0.306, 0.35, and 0.291 from smallest to largest.

Answer Key:

1a) $8\frac{7}{200}$ 1b) $\frac{11}{250}$ 2) 3.15625   3) $1.\overline{54}$ 4a) $5.68

4b) $6   5a) 78.456   5b) 78.5   6) 108.451

7) 66.02   8) 12.5   9) 8.2166   10) 18.33624   11) 353.04

12a) undefined   12b) 0

13) fifty-four thousand, ninety-eight and thirty-four thousandths

14) 29.7   15) 6.625   16) $6816.99

17) 29.2 mpg   18) Mean = $44.64, Median = $44.55, Mode = None

19) a, b, c   20) 0.10, 0.291, 0.3, 0.306, 0.3254, 0.35