Decimal Ops Study Guide - <u>No</u> Calculator Written Portion

<u>Directions</u>: Solve the following computations. Show your work.

1.)   32.46 **+** 46.928

2.)   9.29 **-** 4.841

3.)   59.8 × 7.4

4.)   75.6 ÷ 0.9

<u>Directions</u>: Read each word problem carefully, then solve. Please show your work and draw a box around your final answer. Remember your units.

5.) The weight of an object is affected by gravity. Something that weighs 1 pound on Earth will weigh 1.08 times that weight (or 1.08 pounds) on Saturn.

   a.) If a rock weighs 8 pounds on Earth, what will it weigh on Saturn?

   b.) If a rock weighs 7.56 pounds on Saturn, what will it weigh on Earth?

6.) Derek took a trip in January. He paid $2.50 per gallon of gasoline while on the trip. He filled his car four times over the course of the trip.

The amounts he bought were:

17.782 gallons
16.074 gallons
14.324 gallons
5.822 gallons

a.) How much gasoline did he buy on the trip?

b.) What was his total cost for gasoline on the trip?

c.) His odometer (which measures distance traveled) read 33,909.4 miles when he pulled out of his driveway and 42,653.1 miles when he returned. How many miles did he travel on his trip?

7.) Mr. Al Jabra was grading math tests. A student's work on a problem is given below:

$$0.27 \times 3.08 = 0.8316$$

Is the student correct? Why or why not?