**Decimal Ops Study Guide**

Skills:

* Compute with decimals –add, subtract, multiply, divide
* Calculate tips, discounts, tax & total
* Find percent of a number
* Use % x whole = part to find unknown information
* Calculate and use unit rates

Suggested questions to use from the book:

ACE Inv. 2 # 1-4, 8, 10-15

 Inv.3 # 3, 9-16, 20, 21, 26-28, 30-39, 41

 Inv. 4. # 4a&b, 5, 9-11, 14-17

**Solve and show your work.**

 1. 12.43 + 25.321 = n 2. 8.34 – 2.172 = n

 3. 14.5 X 9.7 = n 4. 10.38 $÷$ 0.6 = n

5. Mrs. Carter and her family went on a fishing trip. They drove to many good fishing spots so they had to fill up their gas tank 4 times. The amounts of gas they bought were: 13.08 gallons, 14.2 gallons, 13.78 gallons, and 13.24 gallons.

1. How much gasoline did the Carter family buy on the trip?
2. If gas is $2.56 per gallon, what was the total cost for gasoline on this trip?

6. Four college friends go out for dinner. The total bill for dinner is $23.85 before tax.

1. Sales tax is 6%. What is the tax on this dinner?
2. The group wants to leave a 20% tip on the food (not including tax). What is the tip that they leave?
3. What is the total cost of the dinner (including tax and tip)?
4. If the college friends share the bill equally, how much will each person pay? Show your work.

9. A student was multiplying decimals. She calculated the following: 0.45 x 30.5 = 13.725

 Is she correct? Explain

10. There are three different ways to buy March Miracles shirts. Which is a better deal?

 a. 25% off 14.00 b. 30% off 16.00 c. $4.60 off $15.00

11. Lucas paid $5.44 for a pack of Hot Wheels. The cars were on sale for 32% off. What was the original price?

12. Emma bought a pair of boot originally prices $48.00 for only $26.40. What percent discount did she receive?