

Name: _____

Block: _____

Decimal Ops Study Guide

1. Solve the following computations. Show your work.

a. $47.13 + 86.684$

b. $17.35 - 9.188$

c. 42.6×5.3

d. $25.6 \div 1.6$

2. Mr. Bonkers the Gorilla has decided to start exercising (too many delicious Banana Smoothies!) by walking a nearby jungle trail and measuring his distance walked on his nifty iPod touch. On Friday he walked 3.41 miles, on Sunday 4.556 miles, Monday 8.087, and Wednesday he walked 11.947 miles.

a. How many miles did Mr. Bonkers walk?

- b. Mr. Bonkers read that he burns 12.5 calories per mile, how many total calories did he burn?
- c. Before he started exercising, Mr. Bonkers weighed 845.34 pounds and after exercising he weighs 827.97 pounds. How much weight did he lose?
3. A Candy Company is offering an additional 20% discount on black licorice flavored jellybeans that have already been reduced by 15%. Will the final cost be the same discount of 35% on the original price? Work through an example to help explain your answer.
4. The total bill for soda and sushi for five people is \$40.80 before tax.
- a. The sales tax is 5%, so what will be the amount added to the bill for the sales tax?
- b. The group wants to leave a generous 20% tip on the cost of the food, not including the tax. What will be the amount added to the bill for the tip?
- c. How much should each person pay if they are to share the bill equally?

5. Bret and Jemaine find \$20 and decide to buy some food at the 7 Eleven. New York City charges 9% sales tax on food. Here's what they bought:

Granola	\$7.89
Eggs	\$3.49
Pasta	\$2.29
Mentos	\$0.89

- a. How much will the food cost? Show your work.
- b. Will Bret have enough money left to buy a package of straws to make his Super Straws (made from 5 regular straws) that cost \$7.99? Explain.
6. Floyd the Robot loves calculating numbers all day, but after a malfunction, his decimal multiplication sometimes can be wrong. Here's a recent calculation: $0.46 * 0.87 = 4.002$. Is Floyd correct? Explain.

7. Write a complete fact family for each problem.

a. $11.3 + 5.5 = 16.8$

b. $6.4 \times 5.2 = 33.28$

8. Ms. Relatively-Sane the Monkey, who holds an excellent job as Top Space Chimp at NASA, wisely saves \$48 of her \$144 daily paycheck. What percent of her pay does she save?

9. There are 40 chocolate truffles in Granny's candy jar. Of these truffles, 35% are filled with strawberry . How many truffles are filled with strawberry?