Ratios and Proportions Worksheet 3

1. A pound of grapes at Shop-Smart costs $3.29, and a half a pound of grapes at Shop-Smarter costs $1.25. How much cheaper is the half-pound of grapes per ounce? (There are 16 ounces in a pound.)

   At Shop-Smarter, the price of grapes is $0.05 per ounce cheaper.

2. Lawd & Taylor are selling all skinny jeans at 15% off and all hoodies at 20% off. You buy three skinny jeans originally priced at $40 each and two hoodies originally priced at $25. How much money did you spend?

   You spent $142 total.

3. In the Triumph dealership, 60% of the motorcycles are black. If there are 180 black motorcycles at the dealership, what is the total number of motorcycles?

   There are 300 motorcycles total.

4. Ted found 120 pints of Jen & Berry's ice cream in his very large freezer. Of those 120 pints, 46% were Grubby Bubby, 13% were Chocolate Chip Cookie Dough, 21% were True Mud, and the rest were Peppermint Crunch. How many pints of Peppermint Crunch were in Ted's freezer?

   Ted had 24 pints of Peppermint Crunch in his freezer.

5. There were 18 cows and 22 buffalo grazing on organic grass. What percent of the animals were buffalo?

   Of all the animals, 55% were buffalo.

6. A legendary creature called the Sandwich Savage ate 25% of the sandwiches at a picnic. If he ate 28 sandwiches, how many sandwiches were at the picnic to begin with?

   There were a total of 112 sandwiches at the picnic.

7. You can purchase the world's largest made-to-order burger called the Jumbo Chumbo Burger. The post-cooking weight of this burger is 294 pounds. If there are 16 ounces in a pound, how many ounces is the Jumbo Chumbo Burger? If 2.2 pounds is 1 kilogram, how many kilograms is the Jumbo Chumbo Burger?

   The Jumbo Chumbo burger is 4704 ounces and about 133 kilograms.

8. Each dairy cow in the U.S. produces an average of 25 quarts of milk per day. Given that there are 4 quarts in a gallon, how many gallons of milk does a cow produce?

   Each dairy cow produces $6\frac{1}{4}$ gallons of milk per day.

9. A Honda can drive 520 miles on its 12-gallon tank of gas. A Ford can drive 680 miles on its 15-gallon tank. A Toyota can go 900 miles on 18 gallons of gas. Which is the most fuel-efficient and by how much? If a gallon of gas costs $3.09, how much money will you spend on gas on a 600-mile trip if you drive the most efficient car?

   The Toyota is the most fuel-efficient car at 50 mpg by 6.77 mpg over the

other two that have the same mpg ratio. The 600-mile trip using the Toyota will cost \$37.08.

10. The table shows the cost of food at Tippy Tacos, a fine dining establishment. Some of the prices have been scratched off, though. Find the cost per taco, use it to fill in the missing values in the table. Graph the values in the table as ordered pairs, and use the graph to find the number of tacos we can buy with \$24.

Tacos	Cost
1	**\$2.40**
2	\$4.80
6	\$14.40
12	**\$28.80**

The cost per taco is \$2.40. The missing values in the table are \$2.40, 6, and \$28.80. Graphs will vary, but \$24 will buy us 10 tacos.