Proportional Relationships

Chapter Review Worksheet

1. Ellen bought 7 fiction books and 4 informational books. Write the ratio of fiction books to informational books _**three**_ different ways.

2. Write the following as unit rates.

>   a. 18 gallons of gas for $65.52

>   b. 26 gallons of gas for $85.54

3. Which is the better deal? Why?

>   a. 6-ounces of crackers for $1.08

>   b. 7-ounce box of crackers for $1.19

>   c. 8-ounce box of crackers for $1.20

>   d. 9-ounce box of crackers for $1.26

4. Write 5 equivalent fractions for the ratio 4:5.

5. Design a table that shows the number of apples to the cost of the apples for 2, 4, and 6 apples if each apple costs $0.45.

6. Design a table that shows the hours worked to the amount paid for 5, 10, and 15 hours of work if a person earns 11.50 an hour.

7. What is the missing value in the proportion 3:16 = H:32?

8. A bottle of cat medicine says to give 2 mL for every 5 lbs. a cat weighs. If a cat weighs 15 pounds, how much medicine should you give it?

9. Write 48.4% as a decimal and a fraction.

10. Write 3.456 as a percent and a fraction.

11. If an item costs $14.00, what would the discount be if you had a coupon for 15% off? What would the sales price?

12. If an item cost $24.00, how much would the tax be if the tax rate was 5.1%? What would the final cost of the item be?

13. What is 7.5% of 34.2?

14. What is 312.5% of 902?

15. 91.25 is 25% of what number?

16. 35% of what number is 22.75?

17. A DVD sells for $24.00 before tax. After sales tax, it costs $25.20. What is the sales tax rate?