Ratio and Proportional Reasoning Test Review

1. John bought a sweater for $28. She paid sales tax of $3.50. What is the ratio of the sales tax to the purchase price of the sweater? Write in simplest form.
2. The ratio of boys to girls in the class is 4 to 7. Write the numerical value that is equivalent to this ratio.
3. What is the ratio of vowels to consonants in the list below?
   1. e, r, I, a, p, o
4. What is the ratio of white marbles to total marbles?

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| **Color** | **Number** |
| Red | 4 |
| Blue | 5 |
| Purple | 3 |
| Green | 4 |
| Yellow | 8 |
| White | 6 |

1. The ratio of bananas to pears in a basket of fruit if 4 to 3. Write a statement that describes the number of bananas and pears.
2. There as 18 boys and 6 girls in Mrs. Frizzle’s class. What is the ratio of boys to girls in simplest form?
3. A book costs $15 and a game costs $20. What is the ratio of the cost of the book to the total cost?
4. What is the ratio of pound cake to the other three items sold in the table?

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| **Food** | **Quantity** |
| Brownies | 6 |
| Pound Cake | 12 |
| Cupcakes | 14 |
| Cookies | 20 |

1. A formal dinner silverware setting includes 1 spoon, 2 forks, and 2 knives. What is the number of spoons, forks, and knives needed for 20 settings?
2. Angelica can type 130 words in 5 minutes. At this rate, how many words can she type in 1 minute?
3. There are 145 students in the cafeteria. The ratio of students buying lunch to those who brought their lunch is 5:1. How many students brought their lunch?
4. Bob weighs 95 pounds. About how many kilograms does Bob weigh (1 kilogam ~ 2.2 pounds).
5. What is the speed, in miles per hour, of an object traveling at 72 feet per second (1 foot = 12 inches).
6. Which is the better buy, 4 oz. for $3.80, 6 oz. for 4.50, or 8 oz. for $6.20?
7. A car travels 780 miles in 10 hours. What is the average speed of the car?