Ratio and Proportion Word Problems

Name:

Score: _

Solve the following ratio and proportion problems and show your workings.

1. A cook uses salt and sugar in the ratio 9 : 2 for a pastasauce. If he uses 45 grams of salt, how much sugar will he use?



- 2. Yesterday it was hot and I felt like having a lime lemonade. In a glass I mixed water and lime in the ratio 10 : 1. If I used 0.25 liter of water, how may milliliters of lime juice did I mix in?
- 3. At a farm the ratio of chickens to geese is 25 : 7. If there are 791 geese, how many chickens are there at the farm?
- 4. I played a game many times. I won 35% of the times I played it. What is my ratio wins to losses of this game?
- 5. A boy has 40 red and blue pencils in his pencil case. If the ratio of red to blue pencils is 0.15 : 0.35, how many blue pencils does he have?
- 6. A recipe in a cook book describes a ratio of pepper to salt of 5 : 1. If you used 1.5 ounces of pepper, how many ounces of salt would you need to use?

Answers

Solve the following ratio and proportion problems and show your workings.

1. A cook uses salt and sugar in the ratio 9 : 2 for a pastasauce. If he uses 45 grams of salt, how much sugar will he use?



 $45 \div 9 \times 2 = 10$ grams of sugar

2. Yesterday it was hot and I felt like having a lime lemonade. In a glass I mixed water and lime in the ratio 10 : 1. If I used 0.25 liter of water, how may milliliters of lime juice did I mix in?

 $0.25 \div 10 = 0.025$ liters x 1,000 = 25 milliliters of lime juice

3. At a farm the ratio of chickens to geese is 25 : 7. If there are 791 geese, how many chickens are there at the farm?

 $(791 \div 7) \times 25 = 2,825$ chickens

4. I played a game many times. I won 35% of the times I played it. What is my ratio wins to losses of this game?

35:65 equals 7:13

5. A boy has 40 red and blue pencils in his pencil case. If the ratio of red to blue pencils is 0.15 : 0.35, how many blue pencils does he have?

 $40 \div 0.5 \times 0.35 = 28$ blue pencils

6. A recipe in a cook book describes a ratio of pepper to salt of 5 : 1. If you used 1.5 ounces of pepper, how many ounces of salt would you need to use?

 $1.5 \div 5 = 0.3$ ounces of salt