## Ratio and Proportion Word Problems

Name: $\qquad$ Score: $\qquad$
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 $\times 1,000=25$ 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
