Application problems.
1. According to a recent survey, 52.6% of all those asked to name what sport they participate in; choose bowling. Write this number as a percent.
   \[ .526 = 52.6\% \]
2. On average, churchgoers donate .03 of their income to the church. What percent does this represent?
   \[ .03 = 3\% \]
3. When Sue bought an airplane ticket to see her sister, the ticket cost $450.00. She has to pay 8% sales tax on the ticket. What was the total tax she had to pay and what was the final ticket price.
   \[ 450 \times .08 = 36 \]
   \[ \text{She paid } 36 \text{ in tax} \quad \text{for a total of } 486 \]
4. Mark went to the Chevrolet dealer to purchase a Tahoe. The sticker price on the vehicle said the price was $35,000.00. The day they went to the dealer they were offering an incentive of a 2% discount. What was the discount that Mark would get on the vehicle?
   \[ 35000 \times .02 = 700 \]
   \[ \text{The discount was } 700 \]
5. Lisa and Dave went out to dinner and their bill came to $26.00. They gave the waiter a tip of 15%. How much money did they give the waiter?
   \[ 26 \times .15 = 3.90 \]
6. Gas prices have been on the rise in recent weeks. Four weeks ago regular gas cost $2.978 per gallon and now regular gas costs $3.269 per gallon. Find the percent increase per gallon of gas.
   \[ \frac{3.269 - 2.978}{2.978} = 0.191 \quad \text{9.8% increase} \]