

*P.I. A.N.5: Solve algebraic problems arising from situations that involve fractions, decimals and percents (decrease/increase and discount), and proportionality/direct variation*

1. In Tulsa, Oklahoma the sales tax is 7.9%. If you buy an \$850 television in Tulsa, how much tax will you pay?
2. A sweater costs \$35. Find the total cost of the sweater if the sales tax is 5%.
3. Estimate which of the following would be a 15% tip for a bill of \$38.49.  
[A] \$5.80                      [B] \$3.85  
[C] \$1.90                      [D] \$7.70
4. What is the salesperson's commission on a \$1300 sale if the commission rate is 10%?
5. At the end of the summer, lawn furniture selling at a market price of \$482 is on sale for 20% off. What is the discount?
6. A bookstore offers a 15% discount to its employees. Suppose an employee has a coupon worth \$5 off any item and wants to buy a book that costs \$45. What is the final cost of the book if the employee discount is taken first and then the coupon is subtracted?
7. The Book Barn is having a sale. All hardback books are 20% off, and all paperbacks are 10% off. Suppose you buy four paperbacks that originally cost \$9 each and two hardbacks that originally cost \$20. What percent of the total have you saved? Round to the nearest percent.
8. A department store purchases a coat for \$95. To sell the coat to customers, the price is increased by 27%. What is the new price of the coat?  
[A] \$25.65                      [B] \$69.35  
[C] \$164.35                      [D] \$120.65
9. The regular price of a dress is \$80. The price has been marked up by 23%. What is the amount of markup?  
[A] \$18.40                      [B] \$57.00  
[C] \$23.00                      [D] \$61.60
10. The owner of a music store received a shipment of stereos at a cost of \$160.00 each. What will the selling price be if he applies a 45% markup?  
[A] \$300.00                      [B] \$88.00  
[C] \$232.00                      [D] \$205.00

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- [1] \$67.15
- [2] \$36.75
- [3] A
- [4] \$130
- [5] \$96.40
- [6] \$33.25
- [7] About 15%
- [8] D
- [9] A
- [10] C