

Section 5.4 – Applications of Percent

Solve each percent application problem.

1. Patti is purchasing a mixer that costs \$229 and has a discount of 25%. What is the amount of discount on the mixer?
2. The price tag on a suit is \$110 but Yvonne has a coupon for a 15% discount. Find the amount of the discount. Find the sale price.
3. The discount on a new laptop was \$79.40. This was a discount of 20%. What was the original selling price of the laptop?
4. Jean wants to buy a phone that costs \$210. The sales tax rate is 4.5%. How much sales tax would be charged on this purchase?
5. Alberto bought a remote control car that costs \$14.50. If the sales tax rate was 6%, what was the total amount Alberto paid for this purchase?
6. Tyrone paid \$1.12 in sales tax when purchasing a calculator. If the sales tax rate was 7%, what was the cost of the calculator?
7. The property taxes on a house were \$3175. What was the tax rate if the house was valued at \$254,000?
8. Dave sells \$56,000 worth of advertising in one month. His commission rate is 8%. What is his commission this month?
9. A realtor works on a 5% commission. How much does she have to sell a house for in order to earn a commission of \$4500?
10. Anita sold \$3,725,000 worth of real estate last year. Her commission earnings were \$130,375. What was her commission rate?
11. A sales clerk receives a monthly salary of \$650 plus a commission of 5% on all sales over \$4400. What did the clerk earn the month that she sold \$13,400 in merchandise?
12. Working at a mobile phone store, Zach earns a monthly salary of \$950 plus a commission of 3% on all sales over \$2500. How much did he make during the month in which he sold \$20,000 worth of mobile phones?
13. If the rate of sales tax is 6%, what would be the final cost of a pair of shoes priced at \$29?
14. A salesperson works on a 12.5% commission with no monthly salary. How much merchandise will he need to sell to earn \$2300 in commission in one month?
15. When her favorite store offered a discount of 25% off everything, Heather bought an outfit with a regular cost of \$76. What was the sale price of the outfit?

ANSWERS

1. \$57.25
2. Discount: \$16.50 Sale Price: \$93.50
3. \$397
4. \$9.45
5. \$15.37
6. \$16
7. 1.25 %
8. \$4480
9. \$90,000
10. 3.5 %
11. \$1100
12. \$1475
13. \$30.74
14. \$18,400
15. \$57