PERCENT 2

1. Alexa bought a new car for $6,750. She paid 20% down. If the balance is to be paid in 24 equal installments, how much will she pay each month? Hint: there are two steps to this problem.

2. If a grocer marks up his produce by 10%, what will be the price on each of the following? Round your answer to the nearest cent.

    a. lettuce $0.45/head

    b. oranges $1.60/dozen

    c. tomatoes $3.28/kg

    d. carrots $1.43/kg

    e. onions $0.66/kg

3. What is the percent reduction on a laptop if its regular price is $800 and the sale price is $560? Remember that the reduction is expressed as a percent of the regular price.

4. Which is a better discount, a stereo reduced from $650 to $500 or one reduced from $750 to $560?

5. A politician said he would take a 5% wage cut. His new salary, without benefits, is $65,000 per year. Determine what his previous salary was.

6. What is the regular price of work gloves if the discount is 20% and the sale price is $32?

7. The price of a colour television set was reduced from $450 to $424.99. What was the percent decrease in price?

8. A province charges a sales tax of 7%. What is the sales tax on a purchase of $320?

9. An item has a marked price of $425. It is placed on sale at 15% off. What is the discount and what is the sale price?

10. The combined sales tax in a province is 14%. If Pat was considering purchasing a tool set advertised at $425, how much tax would be charged? What is the total cost of the tool set?

Bow Valley College

ANSWER KEY

1. $225/month

2. lettuce $0.50/head, oranges $1.76/dozen, tomatoes $3.61/kg, carrots $1.57/kg, onions $0.73/kg

3. ($800 - $560) ÷ $800 = 30% reduction

4. ($650 - $500) ÷ $650 = 23% reduction
   ($750 - $560) ÷ $750 = 25% reduction - better buy

5. x = $68,421.05 (previous salary)

6. x = $40 (regular price of the dress)

7. Percent decrease 5.6%

8. Sales tax is $22.40

9. discount is $63.75, sales price $361.25

10. $59.50, $484.50

Source: Government of BC used with permission.