

Math for Financial Literacy ©2013

Chapter 5: Making Purchases—Checkpoint Solutions

Checkpoint 5.1

1. Darius purchased a new suit for \$295.95. The sales tax rate on clothing is 6.25%. What is the final purchase price of the suit, including sales tax?

Answer: \$314.45

2. Fatima purchased new plants for her yard. She used a coupon for 20% off her entire purchase, which was \$195.50 before sales tax. What is the pretax purchase price of the plants, after the coupon discount is deducted?

Answer: \$156.40

3. Keenan purchased a bag of dog food for \$48.23. He received a mail-in rebate for \$7.50. What will be the final cost of the bag of dog food if Keenan uses the mail-in rebate?

Answer: \$40.73

4. Natsumi went on a business lunch. The pretax bill was \$55.60. She decided to leave a 15% tip. The sales tax rate is 8.25%. What was the final amount of the bill?

Answer: \$68.53

5. Makalo took his grandmother to dinner. The pretax bill was \$54.50. He decided to leave a 20% tip. The sales tax rate is 7.75%. What was the final amount of the bill?

Answer: \$69.62

Checkpoint 5.2

1. Hassan made a purchase at the convenience store for \$22.19, including sales tax. He gave the clerk \$40. How much change should Hassan receive?

Answer: \$17.81

2. Selena manages a landscaping company and purchases her materials from the local lumberyard, where she has a charge account. Last week, Selena's company purchased 48 landscaping timbers at \$4.55 each, 80 cubic yards of mulch at \$29.95 per cubic yard, and 90 flats of bedding plants at \$4.88 per flat. She must also pay a 6.5% sales tax on all purchases. What was the balance of Selena's landscaping company's charge account at the end of the week?

Answer: \$3,252.08

3. Jacob owns a farm supply company. The chart that follows shows items purchased by one of his clients on a charge account. Assuming the sales tax rate is 4.5%, what is the client's charge account balance?

Answer: \$1,671.16

4. Renee placed some holiday gifts in layaway. The combined price of the items was \$318.95. The store charges a 5% layaway fee and requires a 10% down payment. She must pay 15% of the item price each week for six weeks. Determine the layaway fee, down payment, and amount of Renee's weekly payments.

Answer: layaway fee = \$15.95
 down payment = \$31.90
 weekly payment = \$45.45

5. Hugo placed a necklace for his mother in layaway. The price of the necklace was \$105.45. The store charges a \$5 service charge, requires a 20% down payment, and requires weekly payments of 10% until the item is paid in full. Determine Hugo's down payment and weekly payments.

Answer: down payment = \$21.09
 weekly payment = \$8.94

Checkpoint 5.3

1. A package of orange juice contains 96 fluid ounces and costs \$5.29. What is the unit price per ounce?

Answer: \$0.06 per fluid ounce

2. A package of three boxes of facial tissue sells for \$9.82. Each box contains 250 facial tissues. What is the unit price per facial tissue?

Answer: \$0.01 per facial tissue

3. Haley is shopping for a new mobile phone plan. Her mobile phone company has a plan for 500 minutes of talk time for \$19.99 per month. If Haley signs a two-year contract, she will receive a \$135 discount on a new phone. However, there is also an activation fee of \$45 and an early termination fee of \$250. What is the total cost of the mobile phone contract, excluding the early termination fee?

Answer: \$389.76

4. Lorenzo signed a two-year contract with his wireless tablet computer company for a data plan that costs \$15.99 per month. There is an early termination fee of \$249. After Lorenzo was 5 months into his contract, he cancelled his service. Including the early termination fee, what was the total cost of Lorenzo's contract?

Answer: \$488.85

5. A website charges \$0.39 for each click on an advertiser's web banner. Red River Valley Bookstore received 75 clicks in January, 68 clicks in February, and 104 clicks in March. What is Red River Valley Bookstore's advertising bill for this quarter?

Answer: \$96.33