

Name:

Period:

Unit 3 Final Exam Review
Math & Shopping Decisions

Directions: Show all your work. If necessary, round your answers to the nearest cent or hundredths place.

1. Christopher is a waiter at a local restaurant. (3 pts each)
 - a. Christopher's 1st table was a family of four whose bill came to \$147.89. If they wanted to leave an 18% tip for good service, what should the tip be? What should the total be?
 - b. Christopher's 2nd table was an unhappy woman who ordered a steak rare and it came out well done. Her bill came to \$22.65 and she left a \$2 tip. What percent of the total bill was this tip?
2. Mark stopped at the grocery store to buy soap. Hannaford sells soap as single bars or in a 3-pack. A single bar of soap costs \$0.89 and a 3-pack costs \$2.99. (4 pts)
 - a. What is the unit price for a single bar of soap?
 - b. What is the unit price for a 3-pack of soap?
 - c. Which is the better deal?

3. Tanya is getting married and wants to have invitations made. A printer charges \$30 for the first 100 copies plus \$17 for each additional 100 copies. If Tanya plans to invite 400 people, what will the invitations cost? (3 pts)

4. Tom found a pair of sneakers for \$79.99. How much would he save if he waited to buy them until next week when they're having a 30%-off sale? (3 pts)

5. Target bought portable radios for \$22 a piece. They are going to mark up the price 110% to sell them. What will be this new price? (3 pts)

6. Pier One is selling a set of glasses for \$49.99 but no one is buying them. They decide to put them on sale for 20% off the original price. What will be the sales price? (3 pts)

7. FYE uses a markup rate of 85%. If a DVD costs the store \$11.23 and they sell it for 15% off, what is the retail price of the DVD? (3 pts)

8. Molly bought a sweater for \$42.99. (2 pts each)

a. What would 7% sales tax on the sweater amount to?

b. What is the total cost of the sweater?

9. Linda needs 16 sticks of butter to make cookies for the annual bake sale. Price chopper sells butter in 3 different ways: a single stick is \$0.50, a pound (4 sticks) is \$1.99, and 2 pounds (8 sticks) is \$3.49. (7 pts)
- a. How many single sticks of butter would she need? What would it cost?
 - b. How many 1-pound packages would she need? What would it cost?
 - c. How many 2-pound packages would she need? What would it cost?
 - d. Which is the better deal?