Understanding Percents – Assignment

Assignment Text

These problems are from Section 6.2 of the textbook. They are problems 1, 3, 5, 13, 15, 19, 31, 33, and 35.

For the following exercises, use the given values to find the indicated value. Round percent results to 2 decimal places. Round money results to the penny (2 decimal places).

1. Retail price = $399.00, percent discount = 30%, find the sale price.

3. Retail price = 125.00, sale price = 90.00, find the percent discount.

5. Sale price = $145.70, percent discount = 20%, find the retail price.

13. Cost = $130.00, percent markup = 34%, find the retail price.

15. Cost = 68.45, retail price = 109.90, find the percent markup.

In the following exercises, find the sales tax and total paid.

19. Retail price = $17.99; sales tax rate = 7.5%

Answer the following.

31. Harris has a coupon for 20% off for any purchase. She finds a new tennis racket for $278.00. How much is the price after the coupon is applied?

33. Resa purchased a new game for her cousin. After sales tax, she paid 41.13. Find the sales tax rate she paid if the purchase price of the game was 38.99.

35. Doug opens a used auto parts store. He pays $30 for a car door. How much will he charge if his percent markup is 60%?

Assignment Key

1. $279.30

3. 28%

5. $182.13

13. $174.20

15. 60.56%

31. $222.40

33. 5.49%

35. $48

Student Feedback Templates

#1 should be $279.30 (discount = $399 * 0.3 = $119.70, sale price = $399 – $119.70 = $279.30)

#3 should be 28% (discount = $125 - $90 = $35, percent discount = $35 / $125 = 0.28 = 28%)

#5 should be $182.13 (Retail price = P, Sale price = 145.70 = P – 0.2P, 145.70 = 0.8*P, 145.70 / 0.8 = P, 182.125 = P, Round to $182.13)

#13 should be $174.20 (Markup = $130 * 0.34 = $44.20, Retail price = $130 + $44.20 = $174.20)

#15 should be 60.56% (Markup = $109.90 - $68.45 = $41.45, Percent markup = 41.45 / 68.45 = 0.60555... = 60.555...%, Round to 60.56%)

#31 should be $222.40 (Discount = $278.00 * 0.2 = $55.60, Sale price = $278.00 - $55.60 = $222.40)

#33 should be 5.49% (Sales tax = $41.13 – $38.99 = $2.14, Sales tax rate = 2.14 / 38.99 = 0.054885… = 5.4885…%, Round to 5.49%)

#35 should be $48 (Markup = $30 * 0.6 = $18, Retail price = $30 + 18 = $48.)