Name: _____
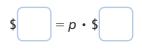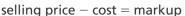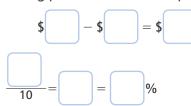
3-5 Additional Practice

Leveled Practice In 1–2, fill in the boxes to solve.

1. A computer store bought a program at a cost of $10 and sold it for $13. Find the percent markup.

markup = percent markup · cost

$\$\boxed{} = p \cdot \$\boxed{}$

selling price − cost = markup

$\$\boxed{} - \$\boxed{} = \$\boxed{}$

$\dfrac{\boxed{}}{10} = \boxed{} = \boxed{}\%$

The percent markup of the computer program is $\boxed{}$%.

2. A music store bought a CD set at a cost of $20. When the store sold the CD set, the percent markup was 40%. Find the selling price.

markup = percent markup · cost

$\boxed{} = \boxed{}\% \cdot \$\boxed{}$

cost + markup = selling price

$\$\boxed{} + \$\boxed{} = \$\boxed{}$

The selling price of the CD is $\$\boxed{}$.

3. A store advertises a 20% markdown on a dishwasher that normally sells for $952.

a. Find the price on sale.

b. The markdown is the greatest possible without the store losing money. What does this tell you about the store's cost?
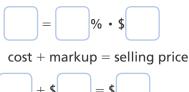
4. Kevin has $24 to buy a gift for his cousin. He found a gift for $22. With 5% sales tax added on, will Kevin have enough money to buy the gift? If so, how much will he pay?

5. Oliver saves 10% of his weekly earnings for living expenses. He usually makes $520 each week. This week he made 10% more. Oliver incorrectly claims that he has $520 left for spending money this week.

a. Calculate the amount of spending money Oliver has left for the week.

b. What error did Oliver likely make?

6. Brianna hoped to get 100 pumpkins from her garden this year. Since the weather was favorable, 20% more pumpkins grew than expected. Unfortunately, animals ate 30% of all the pumpkins that grew.

a. How many pumpkins were left?

b. Is the final number of pumpkins more or less than Brianna had hoped?

7. Gary wants to buy a video game with a selling price of $48, on sale for 50% off. The sales tax in his state is 4.5%.

  a. How much will Gary have to pay in all?

  b. If he has exactly $25, can he afford to purchase the game? Explain.

8. A department store buys 300 shirts for a total cost of $7,200 and sells them for $30 each. Find the percent markup.

9. Make Sense and Persevere A diamond ring that normally sells for $1,275 is on sale for $1,020. A ruby ring that normally sells for $290 is on sale for $203. © MP.1

  a. What is the percent markdown for the diamond ring?

  b. What is the percent markdown for the ruby ring?

  c. Compare the percent markdowns for the two rings.

10. Higher Order Thinking Victor paid $415 for a new kayak that he will sell in his shop. He wants to price the kayak so that he can offer a 25% markdown but still keep a markup of 15% of the price he paid for it. What should be the price of the kayak before markdown?

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11. During a sale, a winter jacket is marked down from $68 to a sale price of $44.20. What is the percent markdown? Explain how you found the answer.

12. Paul bought a concert ticket for $25. He sold the ticket at a 35% markup. Find Paul's selling price. Explain how you found the answer.