

**Practice**  
**3-6*****Markups and Markdowns***

1. A computer store bought a program at a cost of \$10 and sold it at a selling price of \$13. Find the percent markup. Round to the nearest whole number.
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.
3. During a sale, a dress is marked down from a selling price of \$60 to a sale price of \$57. What is the percent markdown?
4. A \$300 suit is marked down by 20%. Find the sale price. Round to the nearest dollar as needed.
5. The selling price of an item is \$650. It is marked down by 10%, but this sale price is still marked up from the cost of \$450. Find the markup from cost to sale price.

6. The selling price of an item is \$600. After 6 months of not selling, it is marked down by 30%. After another 6 months of not selling, it is further marked down by 20%. Find the sale price after both markdowns.

7. **Error Analysis** A store is instructed by corporate headquarters to put a markup of 11% on all items. An item costing \$27 is displayed by the store manager at a selling price of \$3. As an employee, you notice that this selling price is incorrect.

a) Find the correct selling price. Round to the nearest dollar as needed.

b) What was the manager's likely error?

- A. The manager set the selling price at the cost.
- B. The manager added to markup to the cost instead of subtracting it.
- C. The manager subtracted the markup from the cost instead of adding it.
- D. The manager set the selling price at the markup.

8. **Computer Sale** A computer store buys a computer system at a cost of \$465.60. The selling price was set at \$776, but after a year the computer did not sell. The store then advertises a 40% markdown on the \$776 computer system. Find the sale price. Round to the nearest cent.

9. **Multiple Representations** A store advertises a 20% markdown on a dishwasher with a selling price of \$952.

a) Find the sale price. Round to the nearest cent.

b) The markdown is the greatest possible without the store losing money. What does this tell you about the cost?

- A. The cost is greater than the sales price.
- B. The cost is less than the markdown.
- C. The cost equals the markdown.
- D. The cost equals the sales price.

10. **Writing** A puppy is on sale at a pet store for \$324, marked down 10% from an original selling price of \$360.

a) If the markup from cost to sale price was \$54, what was the cost? Round to the nearest dollar.

b) How would you solve the problem if you were not given the sale price?

11. **Reasoning** Joanne cannot decide which of two washing machines to buy. The selling price of each is \$650. The first is marked down by 50%. The second is marked down by 20% with an additional 30% off.

a) What is the sale price of the first washing machine? Round to the nearest dollar.

b) What is the sale price of the second washing machine?

c) Explain why Joanne should buy the first washing machine rather than the second if the machines are the same except for the selling price.

12. A department store buys 300 shirts at a cost of \$7,200 and sells them at a selling price of \$30 each. Find the percent markup to the nearest whole number.

13. A diamond ring which normally sells for \$1,275 is on sale for \$1,020. A ruby ring which normally sells for \$290 is on sale for \$203.
- What is the percent markdown for the diamond ring? Round to the nearest whole number as needed.
  - What is the percent markdown for the ruby ring?
  - Compare the percent markdown for the two rings.
14. **Challenge** Robin paid \$350 for a new mountain bike to sell in her shop. She wants to price the bike so that she can offer a 30% markdown but still keep a markup of 20% of the price she paid for it. What should be the full selling price of the bike? Round to the nearest dollar as needed.
15. **Challenge** A sporting goods store bought a ski set at a cost of \$255. Later, the ski set was marked down 20% from its selling price and then marked down another 30%. The total markdown is the greatest possible markdown without the store losing money. Find the original selling price. Round to the nearest dollar as needed.