

Write and solve proportions to solve each problem. Show your work.

7. At the ABC Electronics Store, a laptop computer was marked down 15% from its original price of \$900. A store employee gets an additional 20% discount on the already marked-down price. How much does the employee pay for the laptop computer?
8. A car dealer earns a 4% commission on all cars sold. Last month, he earned \$7,200 in commission. He wants to earn \$8,000 in commission this month. What increase in total sales from last month's total sales does he need in order to reach his goal for this month?

9. A wholesaler buys pairs of sunglasses for \$5.50 each. He then marks up the wholesale cost 80% to create a retail price for his customers. Customers must then pay an additional 7% tax on the retail price. What is the total cost of a pair of sunglasses to the wholesaler's customers, including tax, rounded to the nearest penny?
10. A real-estate agent earns a commission on a house she sells. Her commission is 5% on the first \$500,000 of the sale price of the house. She then earns a 6% commission for the amount above \$500,000 of the sale price of the house. How much commission did the agent earn if she sold a house for \$585,000?

Solve.

11. **COMPARE** The price for two pairs of jeans is the same, \$50. One pair is discounted twice: first for 10% off, then again for 15% off the discounted price. The other pair is discounted once for 25% off. After their respective discounts, are the two pairs of jeans the same price? If not, which is cheaper? Show and explain your work.
12. **SHOW** A polling company took 5 polls in the week before an election. It showed that a mayoral candidate would get 66%, 56%, 55%, 60%, and 63% of the total votes. That candidate received 64% of the total votes during the actual election. Find the percent error in the average of the company's polling results, to the nearest tenth of a percent. Show your work.