

**Write and solve a system of linear equations for each. Write your answer in a complete sentence.**

1. At the Gap, 5 pairs of jeans and 2 sweatshirts cost \$166, while 3 pairs of jeans and 4 sweatshirts cost \$164. Find the cost of one sweatshirt.
  
  
  
  
  
  
  
  
  
  
2. A basketball player scored 19 points by shooting two-point and three-point baskets. If she made a total of eight baskets, how many of each type did she make?
  
  
  
  
  
  
  
  
  
  
3. Ninety-eight passengers rode in a train from Boston to Denver. Tickets for regular coach seats cost \$120, and sleeper car seats cost \$290. The receipts from the trip totaled \$19,750. How many passengers purchased each type of ticket?
  
  
  
  
  
  
  
  
  
  
4. At Knoebels's amusement park, five hot dogs and two drinks cost \$19.75. Three hot dogs and three drinks cost \$15. Find the cost of one hot dog and one drink.

5. The local community college theater put on a production of *Chicago*. There were 186 tickets sold, some for \$16 (nonstudent price) and others for \$12 (student price). If the receipts for one performance totaled \$2640, how many of each type of ticket were sold?
  
  
  
  
  
  
  
  
  
  
6. Madison has a pocket full of change consisting of dimes and quarters. The total value is \$3.15. There are 7 more quarters than dimes. How many of each coin are there?
  
  
  
  
  
  
  
  
  
  
7. A rental car company rents a compact car for \$20 a day, plus \$0.25 per mile. A midsize car rents for \$30 a day, plus \$0.20 per mile. Find the number of miles at which the cost to rent either car would be the same. What would the cost be?
  
  
  
  
  
  
  
  
  
  
8. One phone company charges \$0.15 per minute for long-distance calls. A second company charges only \$0.10 per minute for long-distance calls, but adds a monthly fee of \$4.95. Find the number of minutes of long-distance calling for which the total bill from either company would be the same.