

1. Jason's Theatre charges \$9 for adult tickets and \$5 for children's tickets. One night the theatre sold 290 tickets and took in \$2250. How many of each type of ticket were sold?
2. Shane has \$4.05 in quarters and dimes. He has twice as many dimes as quarters. How many quarters and how many dimes does he have?
3. Davis Rent-A-Car charges a fixed amount per weekly rental plus a charge for each mile driven. A one-week trip of 520 miles costs \$250, and a two-week trip of 800 miles costs \$440. Find the weekly charge and the charge per mile.
4. When you reverse the digits in a certain two-digit number you decrease its value by 9. What is the number if the sum of its digits is 9?
5. A financial planner wants to invest \$8000 in stocks earning 15% annually and the rest in bonds earning 6% annually. In order to get an annual return of \$930 at those current rates, how much should he invest in each?
6. Shara's piggy bank contains 75 coins, all nickels and dimes, worth \$5.95. How many dimes and how many nickels are in her bank?
7. The diameter of the Earth is approximately 482 miles less than twice the diameter of the planet Mars. The sum of the radii of Mars and Earth is 6059. Find the diameters of both.
8. Five years from now, Joel's father's age will be 3 times Joel's present age. The sum of Joel's age 5 years ago and his father's present age is 50. How old is each now?
9. The sum of a certain two-digit number is 14. When you reverse its digits you increase the number by 36.
10. There were 100 more balcony tickets than main-floor tickets sold for a concert. The balcony tickets sold for \$4 and the main-floor tickets sold for \$12. The total amount of sales for both types of tickets was \$3056. Find the number of balcony tickets that were sold.
11. Ramon rented a sprayer and a generator. On his first job, he used each piece of equipment for 6 hours at a total cost of \$90. On his second job, he used the sprayer for 4 hours and the generator for 8 hours at a total cost of \$100. What was the hourly cost of each piece of equipment?
12. The ninth graders at a high school are raising money by selling T-shirts and baseball caps. The number of T-shirts sold was three times the number of caps. The profit they received for each T-shirt sold was \$5.00 and the profit on each cap was \$2.50. If the students made a total profit of \$210, how many T-shirts and how many caps were sold?