

1. Luke's weight is 40 pounds more than 3 times Lauren's weight. Together their weights total 240 pounds. Find the weight of each.
2. The second of three numbers is one more than twice the first. The third is 10 less than the second. The sum of the three numbers is 27. Find each.
3. The square of a number is 30 less than 11 times the number. Find the number.
4. The square of 2 more than a number is the same as 10 more than 9 times the number. Find the number.
5. Find three consecutive integers such that the product of the second and the third is 2 less than 8 times the first.
6. A graduating class of 170 this year is only 85% of the size of last year's class. How many were graduated last year?
7. Five out of seven people use Smith Deodorant. How many people in a city of 42,000 do not use Smith Deodorant?
8. Jack's motorcycle averages 50 mi/gal. Find the cost of the gas for a 6,000 mile trip if gas costs \$2.15 a gallon?
9. Seth is paid \$145 a week plus a commission of 5% on all sales. Find Seth's sales for the week if he is to earn a total of \$270.
10. Working together, Addie and Bella can drive Mac crazy in 6 hours. It takes Addie 3 times longer than Bella working alone. How long would it take each person working alone?
11. A pipe can fill a pool in 20 hours, while an outlet pipe can empty the pool in 30 hours. How long would it take to fill the empty pool if both pipes are operating at the same time?
12. Two cars started toward each other at the same time from town 500 km apart. One car's rate was 65 km/hr, the other's 60 km/h. After how many hours did they meet?
13. Tori and Fiona drove to Casey's house at 60 km/h. They bicycled home at 15 km/h. The entire trip took 4 hours. How many km did they bicycle?
14. A train left a station traveling at 110 km an hour. Two hours later, a train left the station traveling in the opposite direction at 90 km/h. How many hours later were they 420 km apart?
15. One number is 4 more than another. If twice the smaller is added to the larger, the result is 28. Find the numbers.
16. The difference of Emmaline's and Jacqueline's ages is 8 years. The sum of twice Emmaline's age and 3 times Jacqueline's age is 66. How old is each?
17. Cashews cost \$12.15/kg. Pecans cost \$13.00/kg. The number of kg of cashews is 2 less than the number of kg of pecans. How many kg of each should be mixed to make a box that will sell for \$76.30?
18. For a school play, 738 tickets valued at \$856 were sold. Some cost \$1 and some cost \$1.50. How many \$1 tickets were sold?
19. There are five fewer dimes than nickels. The total value is \$4. How many coins are there of each type?
20. The sum of the digits of a two-digit number is 15. If the digits are reversed, the new number is 27 less than the original number. Find the original number.