

Solve the word problems. Show the let statement, equation solving process, and all answers.

- 1.) The sum of six-fifths of a number and 2 is 14. Find the number.
- 2.) When twice a number is added to 15, the result is 9 more than the number. Find the number.
- 3.) Twenty-one is three times the difference between four times a number and five. Find the number.
- 4.) When six is subtracted from a number, the result is -3 times the number. Find the number.
- 5.) The sum of a number and six is four less than six times the number. Find the number.
- 6.) If 7 times a number is added to -3 , the result is 2 less than 8 times the number. Find the number.
- 7.) Walt Thompson runs a ski train. One day he noticed that the train contained 13 more women than men. If there were a total of 165 people on the train, how many of them were men?
- 8.) During a season, Michael Jordan scored 92 points fewer than twice the number of points Brad Daugherty scored. Larry Bird scored 795 more points than Daugherty. Altogether, the three players scored 6623 points. How many points did each player score?
- 9.) The sum of the measures of the angles of a triangle is always 180 degrees. If one angle in a triangle is twice the smallest angle, and the third angle is three times the smallest angle, find the measure of each angle of the triangle.
- 10.) A piece of rope is 79 cm long. It is cut into three pieces. The longest piece is 3 times as long as the shortest piece, and the middle-sized piece is 14 cm longer than the shortest piece. Find the lengths of the three pieces.
- 11.) In a recent year, the State of Florida had a total of 120 members in its House of Representatives, consisting of only Democrats and Republicans. There were 30 more Democrats than Republicans. How many Representatives from each party were there?
- 12.) Find two consecutive integers such that twice the first is 26 more than the second.
- 13.) Find three consecutive odd integers whose sum is 57.
- 14.) Find three consecutive integers whose sum is negative 24.
- 15.) Find three consecutive odd integers such that the sum of the smallest and largest is eleven less than three times the middle integer.
- 16.) Find three consecutive even integers such that three times the middle integer is six more than the sum of the first and third.