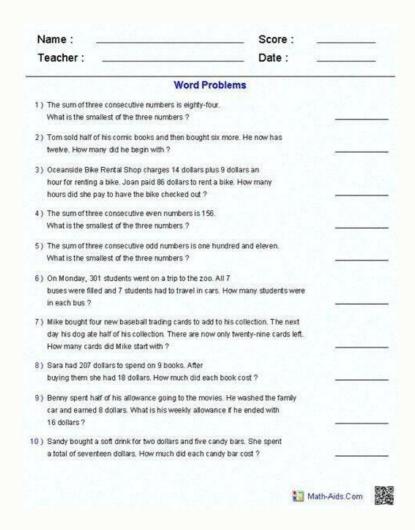


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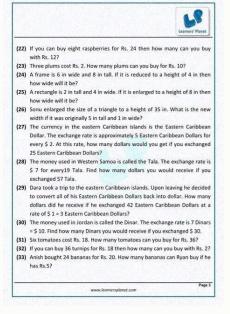
Linear equations word problems worksheet. Linear word problems algebra 1. Solving linear systems word problems. Linear equations word problems worksheet pdf.

Printable worksheets for Algebra: Learn how to write and solve linear equation word problems with Grade 7 and Grade 8. To solve these problems, follow a step-by-step guide: Read the problem carefully Understand what's being asked Identify key information Assign variables Translate words into an equation using those variables Use algebraic methods to solve for unknowns Verify solution by checking conditions Get help with solving linear equation word problems through examples, solutions, videos, and worksheets. Try out our free Mathway calculator and practice different math topics. Rewritten Text: 1. Two complementary angles have an angle measure of 12 degrees. This means that the sum of these two angles is 90 degrees minus twice the unknown angle (x). The equation becomes: 90 - 2x = 12, which simplifies to -2x = -78, then x = 39. Therefore, the complementary angles are 39 degrees and 51 degrees. 2. Two tables and three chairs cost \$705. If a chair costs \$x and a table is \$40 more than a chair, find the cost of each chair and table. Let's assume the cost of one chair is x.



Therefore, the complementary angles are 39 degrees and 51 degrees. 2. Two tables and three chairs cost \$705. If a chair costs \$x and a table is \$40 more than a chair, find the cost of one chair is x.

Then, two tables cost 2(40 + x) = 80 + 2x, and three chairs cost 3x. The total cost becomes: 3x + 3x = 705. Simplifying this equation gives us: 3x = 625, then 3x = 625,



Two complementary angles have an angle measure of 12 degrees. This means that the sum of these two angles is 90 degrees minus twice the unknown angle (x). The equation becomes: 90 - 2x = 12, which simplifies to -2x = -78, then x = 39. Therefore, the complementary angles are 39 degrees and 51 degrees.

2. Two tables and three chairs cost \$705. If a chair costs \$x and a table is \$40 more than a chair, find the cost of each chair and table. Let's assume the cost of one chair is x. Then, two tables cost 2(40 + x) = 80 + 2x, and three chairs cost \$x. The total cost becomes: 80 + 2x + 3x = 705. Simplifying this equation gives us: 80 + 2x + 3x = 705. Therefore, each chair costs \$125 and each table costs \$165.

3. If 3/5 of a number is 4 more than 1/2 of the same number, find the value of that number. Let the number becomes: x/2. According to the problem, these two expressions are equal to 4. Simplifying this equation gives us: x/10 = 4, then x = 40. Therefore, the required number is 40. Try to follow the methods of solving word problems on linear equations and then observe the detailed instruction on the application of equations to solve the problems.