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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.

Name : \_\_\_\_\_

Teacher : \_\_\_\_\_

Score : \_\_\_\_\_

Date : \_\_\_\_\_

Word Problems

1) The sum of three consecutive numbers is eighty-four. What is the smallest of the three numbers ?

\_\_\_\_\_

2) Tom sold half of his comic books and then bought six more. He now has twelve. How many did he begin with ?

\_\_\_\_\_

3) Oceanside Bike Rental Shop charges 14 dollars plus 9 dollars an hour for renting a bike. Joan paid 86 dollars to rent a bike. How many hours did she pay to have the bike checked out ?

\_\_\_\_\_

4) The sum of three consecutive even numbers is 156. What is the smallest of the three numbers ?

\_\_\_\_\_

5) The sum of three consecutive odd numbers is one hundred and eleven. What is the smallest of the three numbers ?

\_\_\_\_\_

6) On Monday, 201 students went on a trip to the zoo. All 7 buses were filled and 7 students had to travel in cars. How many students were in each bus ?

\_\_\_\_\_

7) Mike bought four new baseball trading cards to add to his collection. The next day his dog ate half of his collection. There are now only twenty-nine cards left. How many cards did Mike start with ?

\_\_\_\_\_

8) Sara had 207 dollars to spend on 9 books. After buying them she had 18 dollars. How much did each book cost ?

\_\_\_\_\_

9) Dorey spent half of his allowance going to the movies. He washed the family car and earned 6 dollars. What is his weekly allowance if he ended with 16 dollars ?

\_\_\_\_\_

10) Sandy bought a soft drink for two dollars and five candy bars. She spent a total of seventeen dollars. How much did each candy bar cost ?

\_\_\_\_\_

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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 3x. The total cost becomes: 80 + 2x + 3x = 705. Simplifying this equation gives us: 5x = 625, then x = 125. 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 be x. Then, 3/5 of the number becomes: 3x/5, and 1/2 of 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.

Lesson Plans

200

If you can buy eight capshirts for \$6, 24 then how many can you buy with \$6?

201

Three plans cost \$6. 3. How many plans can you buy for \$6?

202

A house is 10 m wide and 8 m tall. If it is enlarged to a height of 4 m then how wide will it be?

203

A rectangle is 1 m tall and 6 m wide. If it is enlarged to a height of 8 m then how wide will it be?

204

Sam enlarged the size of a triangle to a height of 30 in. What is the new width if it was originally 5 in tall and 7 in wide?

205

The currency in the eastern Caribbean Islands is the Eastern Caribbean Dollar. The exchange rate is approximately 3 Eastern Caribbean Dollars for every \$ 1. At the rate, how many dollars would you get if you exchanged 33 Eastern Caribbean Dollars?

206

The money used in Western Samoa is called the Tala. The exchange rate is \$ 1 for every 12 Tala. Find how many dollars you would receive if you exchanged 57 Tala.

207

Eric took a trip to the eastern Caribbean Islands. Upon leaving he decided to convert all of his Eastern Caribbean Dollars back into dollar. How many dollars did he receive if he exchanged 42 Eastern Caribbean Dollars at a rate of \$ 1 = 3 Eastern Caribbean Dollars?

208

The money used in Jordan is called the Dinar. The exchange rate is 7 Dinars = \$ 10. Find how many dollars you would receive if you exchanged 336 Dinars.

209

Six bananas cost \$6. 12. How many bananas can you buy for \$6?

210

If you can buy 24 apples for \$6, 24 then how many can you buy with \$6?

211

John bought 24 bananas for \$6. 24. How many bananas can you buy if he has \$6?

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