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Linear equations in two variables calculator

To calculate linear inches, simply determine the length, width and height of a luggage item and add them together. You will need a tape measure or ruler and a calculator. Measure the length, width and height of the luggageUse a tape measure or ruler, measure the length, width and height of the outside of the luggage in inches. Include objects such as wheels and outer space when measuring. Find the sum of the three measurementsUsing a calculator add the length, width, and height together. The total is linear inches measurement of luggage. Knew your limits and feesLinear inches used in the travel industry to impose restrictions on carry-on and checked baggage. Learn more about any restrictions and surcharges in advance. In mathematics, a linear equation is one that contains two variables and can be plotted on a graph as a straight line. A system of linear formulas is a group of two or more linear formulas that all contain the same set of variables. Systems of linear equations can be used to model real problems. They can be solved using a variety of different methods: GraphingSubstitutionElimination by additionElimination by subtraction Eric Raptosh Photography/Blend Images/Getty Images Graphing is one of the easiest ways to solve a system of linear equations. All you have to do is draw each formula as a line and find the point(s) where the lines cross each other. Consider, for example, the following system of linear equations containing the variables x and y : $y = x + 3y = -1x - 3$ These equations are already written in slope cut-off form, making them easy to graph. If the equations were not written in slope-interception form, you need to simplify them first. When it is done, solving for x and y requires only a few simple steps: 1. Graph both equations. 2. Find the point where the equations intersect. In this case, the answer $(-3, 0)$. 3. Make sure that the answer is correct by linking the values $x = -3$ and $y = 0$ into the original equations. $y = x + 3$ $0 = (-3) + 3 = 0$ $y = -1x - 3$ $0 = -1(-3) - 3 = 3 - 3 = 0$ Another way to solve a system of equations is by substitution. With this method, you essentially simplify one equation and incorporate it into the other, which allows you to eliminate one of the unknown variables. Consider the following system of linear equations: $3x + y = 6x = 18$ $-3y$ In the second equation, x is already isolated. If that was not the case, we would first have to simplify the equation to isolate x . Having isolated x in the second equation, we can then replace x in the first equation with corresponding value from the second equation: $(18 - 3y)$. 1. Replace x in the first equation with the given value x in the second equation. $3(18 - 3y) + y = 6$ 2. Simplify each side of the equation. $54 - 9y + y = 6$ $54 - 8y = 6$ 3. Solve the equation for y . $54 - 8y - 54 = 6 - 54$ $-8y = -48$ $-8y / -8 = -48 / -8$ $y = 6$ 4. Plug in $y = 6$ and loose for x . $x = 18 - 3y$ $x = 18 - 3(6)$ $x = 18 - 18$ $x = 0$ 5. Make sure $(0, 6)$ Solution. $x = 18 - 3y$ $0 = 18 - 3(6)$ $0 = 18 - 18 = 0$ If the linear equations you get are written with the variables on one side and a constant on the other, the easiest way to solve the system is by elimination. Consider the following system of linear equations: $x + y = 180$ $3x + 2y = 414$ 1. First, type the equations side by side so that you can easily compare the coefficients with each variable. 2. Then multiply the first equation by -3 . $-3(x + y = 180)$ 3. Why do we multiply by -3 ? Add the first formula in the second to find out. $-3x + -3y = -540$ $3x + 2y = 414$ $+ -1y = -126$ We have now eliminated the variable x . 4. Fix for variable y : $y = 126$ 5. Plug in $y = 126$ to find x . $x + y = 180$ $x + 126 = 180$ $x = 54$ 6. Make sure that $(54, 126)$ is the correct answer. $3x + 2y = 414$ $3(54) + 2(126) = 414$ $162 + 252 = 414$ Another way to solve by elimination is to subtract, instead of adding, the given linear equations. Consider the following system of linear equations: $y - 12x = 3y - 5x = -4$ 1. Instead of adding the equations, we can draw them to eliminate y . $y - 12x = 3$ $(y - 5x = -4) - 7x = 7$ 2. Fix for x . $-7x = 7$ $x = -1$ 3. Insert $x = -1$ to solve to y . $y - 12x = 3y - 12(-1) = 3y + 12 = 3y - 9$ 4. Make sure that $(-1, -9)$ is the correct solution. $(-9) - 5(-1) = -4$ $-9 + 5 = -4$ $-4 = -4$ RyanJLane/E+/Getty Images If you are trying to lose weight, it is useful to understand energy balance. Most people don't think of their weight loss journey as a mathematical problem. But in many ways it is. To lose weight, you need to calculate the energy balance equation, and then change the numbers to achieve weight loss. If you can make the numbers tilt in the right direction, you will lose weight more efficiently. Energy balance is simply the relationship between energy supply and energy production. The complete energy equation looks like this: Energy input (calories in) – Energy production (calories out) = Energy balance It doesn't look very complicated. But you may not have the numbers to do the math. So to find out your energy balance you need to collect some important information. To learn how to manage your energy balance, you need to collect figures related to energy input and energy production. We put in energy when we eat. The food we consume provides calories. Calories are simply a device of energy or heat. The food we eat and the drinks we consume provide different amounts of energy. Protein and carbohydrates each provide 4 calories per gram, and fat provides 9 calories per gram. So how do you know your energy input number?

Count the number of calories you eat every day. You can do it with a simple downloadable food diary, or you can use a popular calorie counting app. An average woman can consume anywhere from 1600 to 2400 calories per day. To get the most accurate number for you, track calories for at least a week. Energy production occurs when your body uses energy. We often refer to this as burning calories. Even when you are Your body uses energy to perform basic functions such as breathing and circulating blood. The rate at which your body burns calories at rest is called basal metabolic rate (BMR). BMR accounts for about 60% to 75% of the total number of calories you burn each day. You also use energy during activities in daily life, such as washing dishes or shopping, and of course through physical exercise. These activities make up about 15% to 30% of your total calorie burning every day. The last 5% to 10% of calories (give or take) burned through the denmity effect of food when eating and digesting meals and snacks. There are different ways to calculate the number of calories you burn each day. One of the easiest ways is to use a calorie calculator. To find out how your energy balance will affect your weight, you need to find out if you have a positive or negative balance. To do this, take your numbers and enter them into the equation at the top of the article. Then find out if you have a negative energy balance or a positive energy balance. If your energy supply and energy production are more or less balanced, you will maintain your current weight. A perfect energy balance creates a stable weight. To change the weight, you need to tip the scale so that they are no longer balanced. A positive energy balance occurs when the energy supply is greater than energy production. That is, you eat more calories than your body consumes. Your body stores excess energy or calories as fat. This results in weight gain. Energy Input & Energy Output = Weight Loss occurs when you create a negative energy balance. That is, you burn more calories than you consume. When this imbalance occurs, the body burns stored energy (fat) to function, and you lose weight. A negative energy balance is sometimes called a calorie deficit. Energy Input & Energy Output = Weight Loss When evaluating your own energy balance, it is best to get the numbers as accurate as possible. Even small differences in energy input and energy production can make a big difference in your weight. Are you ready to calculate your own energy balance? Here are two example equations to be used as a guide. Calories consumed every day: 2,000Calories burned every day: 1,7,502,000 (energy input) – 1,750 (energy production) = 250 calories Megan has a positive energy balance of 250 calories per day. It doesn't sound like much. But within a week, her estimated balance would be 1,750 calories or if enough to gain half a pound of weight. Calories consumed every day: 1800Calories burned every day: 2,0501,800 (energy input) - 2050 (energy production) = -250 calories Cameron has a negative energy balance of 250 calories. Within a week, her body must burn 1,750 calories of stored fat to meet her needs, and she can lose about half a pound of weight. So if weight loss is just a simple equation, why is it so hard to lose weight? Because there are many factors that both the energy supply and energy production. Things like your medical status, age, and mood affect your energy balance equation every day. Weight loss is a simple equation, but finding the right balance requires a little more work. If you are at the beginning of your weight loss journey, or if you question your current diet and exercise plan, the energy balance equation is a great place to start. You don't need to buy fancy tools or invest in an expensive weight loss program. Try to make some changes on your own. Evaluate the factors that affect calorie intake and calorie production. You have control over some factors (such as activity level) and no control over others (such as age and gender). Just change what you can to tilt the scales of the energy balance equation and reach your weight loss goals. Goal.

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