Solving polynomial inequalities worksheet with answers

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Simple Linear Equations (A)

Solve for each variable.

1. $\frac{u}{8} = 2$ 6. $\frac{u}{2} = 9$ 11. $\frac{y}{6} = 8$

2. $\frac{b}{3} = 3$ 7. $\frac{u}{8} = 8$ 12. $\frac{x}{2} = 7$

3. $\frac{u}{8} = 3$ 8. $\frac{y}{8} = 4$ 13. $\frac{v}{3} = 3$

4. $\frac{c}{2} = 7$ 9. $\frac{u}{9} = 9$ 14. $\frac{b}{5} = 4$

5. $\frac{c}{7} = 9$ 10. $\frac{x}{6} = 8$ 15. $\frac{v}{9} = 5$

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Solve.

The length of a rectangle is two feet less than 3 times the width. If the area is 65 ft², find the dimensions.

$x(3x - 2) = 65$

$3x^2 - 2x = 65$

$\underline{-65 \quad -65}$

$3x^2 - 2x - 65 = 0$

Let $x = $ width

$3x - 2 = $ length

Here is a graphic preview for all of the Coordinate Worksheets Sections. You can select different variables to customize these Coordinate Worksheets for your needs. The Coordinate Worksheets are randomly created and will never repeat so you have an endless supply of quality Coordinate Worksheets to use in the classroom or at home. We have identifying lines, rays and line segments worksheets, measurement of line segments worksheets, lines on a coordinate plane worksheets, midpoint formula worksheets, distance formula worksheets, translation, rotation, and reflection worksheets, single and four quadrant ordered pair worksheets, four quadrant graphing puzzle worksheets, standard graphing paper, single quadrant graphic paper, four quadrant graphing paper, and polar coordinate graphing paper for your use. Our Coordinate Worksheets are free to download, easy to use, and very flexible. These Coordinate Worksheets are a great resource for children in the 5th Grade, 6th Grade, 7th Grade, and 8th Grade. Click here for a Detailed Description of all the Coordinate Worksheets. Click the image to be taken to that Coordinate Worksheets. Identify Lines, Rays, and Line Segments Worksheets These Coordinate Worksheets will produce 9 problems for practicing identifying lines, rays, and line segments. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Measuring Line Segments Worksheets These Coordinate Worksheets will produce problems for practicing measuring line segments. These worksheets will produce 15 problems per worksheet. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Equation of a Line on a Plane Worksheets These Coordinate Worksheets will produce problems for practicing solving the equation of a line on a coordinate plane. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Midpoint Formula Worksheets These Coordinate Worksheets will produce Midpoint Formula Problems for practicing solving the midpoint of a line segment on a coordinate plane. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Distance Formula Worksheets These Coordinate Worksheets will produce Pythagorean Theorem Distance Problems for practicing solving distances between two sets of points on a coordinate plane. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Translation, Rotation, and Reflection Worksheets These Coordinate Worksheets will produce problems for practicing identifying translation, rotation, and reflection of objects. These worksheets are a great resources for the 4th, 5th, and 6th Grade. Single Quadrant Ordered Pairs Worksheets These Coordinate Worksheets will produce a single quadrant coordinate grid and a set of questions on ordered pairs for the student to answer. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Four Quadrant Ordered Pairs Worksheets These Coordinate Worksheets will produce a four quadrant coordinate grid and a set of questions on ordered pairs for the student to answer. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Four Quadrant Graphing Puzzle Worksheets These Coordinate Worksheets will produce a four quadrant coordinate grid with a set of ordered pairs. The student will plot the points to produce the picture. These worksheets are a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Standard Graphing Paper Worksheets These Coordinate Worksheets will produce a blank page of standard graph paper for the student to use. You may vary the types of scales to be printed. Single Quadrant Graphing Paper Worksheets These Coordinate Worksheets will produce a single or four quadrant coordinate grid for the students to use in coordinate graphing problems. You may print 1, 2, or 4 images per page. Single Quadrant Graphing Paper Worksheets These Coordinate Worksheets will produce a blank page of polar coordinate graph paper for the student to use. You may vary the types of scales to be printed. Click here for More Geometry Worksheets Enter expression, e.g. (x^2-y^2)/(x-y) In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Welcome to the Algebra worksheets page at Math-Drills.com, where unknowns are common and variables are the norm. On this page, you will find Algebra worksheets mostly for middle school students on algebra topics such as algebraic expressions, equations and graphing functions. This page starts off with some missing numbers worksheets for younger students. We then get right into algebra by helping students recognize and understand the basic language related to algebra. The rest of the page covers some of the main topics you'll encounter in algebra units. Remember that by teaching students algebra, you are helping to create the future financial whizzes, engineers, and scientists that will solve all of our world's problems. Algebra is much more interesting when things are more real. Solving linear equations is much more fun with a two pan balance, some mystery bags and a bunch of jelly beans. Algebra tiles are used by many teachers to help students understand a variety of algebra topics. And there is nothing like a set of co-ordinate axes to solve systems of linear equations. Most Popular Algebra Worksheets this Week Properties and Laws of Numbers Worksheets The Associative Law The associative law or associative property allows you to change the grouping of the operations in an arithmetic problem with two or more steps without changing the result. The order of the numbers stays the same in the associative law. As with the commutative law, it applies to addition-only or multiplication-only problems. It is best thought of in the context of order of operations as it requires that parentheses must be dealt with first. An example of the associative law is: $(9 + 5) + 6 = 9 + (5 + 6)$. In this case, it doesn't matter if you add $9 + 5$ first or $5 + 6$ first, you will end up with the same result. Students might think of some examples from their experience such as putting items on a tray at lunch. They could put the milk and vegetables on their tray first then the sandwich or they could start with the vegetables and sandwich then put on the milk. If their tray looks the same both times, they will have modeled the associative law. Reading a book could be argued as either associative or nonassociative as one could potentially read the final chapters first and still understand the book as well as someone who read the book the normal way. Missing Numbers or Unknowns in Equations Worksheets Missing numbers in equations worksheets in three types: blanks for unknowns, symbols for unknowns and variables for unknowns. Algebraic Expressions Worksheets Using the distributive property The distributive property is an important skill to have in algebra. In simple terms, it means that you can split one of the factors in multiplication into addends, multiply each addend separately, add the results, and you will end up with the same answer. It is also useful in mental math, and example of which should help illustrate the definition. Consider the question, 35×12. Splitting the 12 into $10 + 2$ gives us an opportunity to complete the question mentally using the distributive property. First multiply 35×10 to get 350. Second, multiply 35×2 to get 70. Lastly, add $350 + 70$ to get 420. In algebra, the distributive property becomes useful in cases where one cannot easily add the other factor before multiplying. For example, in the expression, $3(x + 5)$, $x + 5$ cannot be added without knowing the value of x. Instead, the distributive property can be used to multiply $3 \times x$ and 3×5 to get $3x + 15$. Exponent Rules and Properties Linear Expressions & Equations Linear equations worksheets including simplifying, graphing, evaluating and solving systems of linear equations. Solving linear equations with jelly beans is a fun activity to try with students first learning algebraic concepts. Ideally, you will want some opaque bags with no mass, but since that isn't quite possible (the no mass part), there is a bit of a condition here that will actually help students understand equations better. Any bags that you use have to be balanced on the other side of the equation with empty ones. Probably the best way to illustrate this is through an example. Let's use $3x + 2 = 14$. You may recognize the x as the unknown which is actually the number of jelly beans we put in each opaque bag. The 3 in the 3x means that we need three bags. It's best to fill the bags with the required number of jelly beans out of view of the students, so they actually have to solve the equation. On one side of the two-pan balance, place the three bags with x jelly beans in each one and two loose jelly beans to represent the $+ 2$ part of the equation. On the other side of the balance, place 14 jelly beans and three empty bags which you will note are required to "balance" the equation properly. Now comes the fun part... if students remove the two loose jelly beans from one side of the equation, things become unbalanced, so they need to remove two jelly beans from the other side of the balance to keep things even. Eating the jelly beans is optional. The goal is to isolate the bags on one side of the balance without any loose jelly beans while still balancing the equation. The last step is to divide the loose jelly beans on one side of the equation into the same number of groups as there are bags. This will probably give you a good indication of how many jelly beans there are in each bag. If not, eat some and try again. Now, we realize this won't work for every linear equation as it is hard to have negative jelly beans, but it is another teaching strategy that you can use for algebra. Linear Systems Quadratic Expressions & Equations Quadratic expressions and equations worksheets including multiplying factors, factoring, and solving quadratic equations. Whether you use trial and error, completing the square or the general quadratic formula, these worksheets include a plethora of practice questions with answers. In the first section, the worksheets include questions where the quadratic expressions equal 0. This makes the process similar to factoring quadratic expressions, with the additional step of finding the values for x when the expression is equal to 0. In the second section, the expressions are generally equal to something other than x, so there is an additional step at the beginning to make the quadratic expression equal zero. Other Polynomial and Monomial Expressions & Equations Factoring non-quadratic expressions worksheets with various levels of complexity. Inequalities Including Graphs Inequalities worksheets including writing the inequality that matches a graph and graphing inequalities on a number line. Graphing inequalities on number lines Graphing Inequalities (Basic)

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