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choosing a B answer isn't always the right one, which is enough to exclude it from the run. The choice of C answer gives us: $x/3 - 5y/3 - 5$ Now let's look at each side of inequality. We know that any fraction with a positive number, both in the numerical and in the denominator, will give us a positive value. This means that we will have some positive value of minus 5 on the left side. We also know that every time we have a negative value in numerator and a positive value in the denominator, we will have a negative share. This means that we will have some negative value of minus 5 on the right side. We also know that a negative plus negative will give us even more negativity (less value). If we put this information together, we know that the left side may or may not be negative, depending on the cost of the x 's, but the right side will only get more and more negative. In other words, no matter what values we attach x 's and y 's, the left side will always be more than the right side, which means that the expression is always true. Now this should be enough for us to choose the right answer as C, but we have to give a look at another choice of answer in case. The answer to Choice D gives us: $x \times 2$ and $1y^2$ and 1 we know that if we square both a positive number and a negative number, we will get a positive result, so the negative value for y is no longer in the game. Thus, this disparity will be true if the absolute value of the x 's exceeds the absolute value of y 's (e.g. $x = 10$ and $y = -9$), but this is not true if the absolute value of y 's is more than the absolute value of x 's (e.g. $x = 9$, $y = -10$). This means that inequality will sometimes be true, but not always that is enough to eliminate it. Finally, E's choice of answer gives us: $x^{-2} - 2y$ We know that the number of negative exponents equals 1 over that number to a positive exponent (e.g. $5^{-3} = 1/5^3$). This means that each value will be a fraction of one above the square of our x 's and y 's value. This will give us two positive fractions, and $1/x^2$ will only be more if the absolute value of the x 's is less than the absolute value of the y 's. But since our x 's and y 's values can be anything as long as the y 's is negative and the x 's is positive, this will only sometimes be true. Therefore, we can exclude the choice of answer E. This leaves us only the answer to choice C, which is Right. Our final answer is C, $x/3 - 5y/3 - 5$ Victory in war, Rock ACT - we'd say the two are basically the same. ACT Mathematical Strategies for Inequality Problems While There Are Several Types of inequality problems, there are several strategies that you can follow to help you solve them most effectively. #1: Write your information and draw it many problems on the ACT, inequality included, appear easier or less complex than they actually are and can lead you to fall for bait answers. This illusion of ease may tempt you to try to solve issues of inequality in your head, but that's not the way to go. Night an extra moment to work your equations on paper or even draw your own charts (or draw on top of the chart you give). The extra few seconds it will take you to write your problems well worth the points you get, taking the time to find the right answer. #2: Use a PIN (or PIA) if necessary, if all you know about the x 's is that it should be over 7, go ahead and choose a value for h $b \times S$. This will make it easier for you to visualize and work through the rest of the problem, as it is usually always easier to work with numbers than to work with variables. When using this strategy, the safest bet is to select two values for a variable - one that is close to the definition value and one that is very far away. This will allow you to see if the values you choose work in all cases. For example, if all you know $x = 7$, it's a good idea to work through the problem once in the assumption that x and 8 and another time assuming that $x = 400$. If the problem is to be true for all x 's, then it should work for all x 's 7 more than 7 . #3: Keep a very careful track of your negatives One of the key differences between inequality and one variable equation is that the mark of inequality is reversing when you multiply or divide both sides into negatives. And you can bet home that this is what the ACT will try to test you over and over again. While the ACT isn't designed to fool you, test makers are still trying to challenge you and check whether you know how to apply key mathematical concepts. If you lose your negativity (an easy thing to do, especially if you work in your head), you will fall for one of the bait answers. Keep a sharp eye. #4: Recheck your answer by working backwards (optional) if you feel insecure in your answer for any reason (because many of the answer options look the same because you're not sure if you've handled the negative numbers correctly, etc.), you can work backwards to see if your expression is really correct. For example, let's look at the inequality that we had earlier when it comes to the function of negatives on inequality: $10 - 4x \leq 50$ Again, we would like to through it just like we would have one variable equation. $-4x \leq 40$ $x \geq 10$ But now maybe this answer doesn't feel right for you or you just want to double-check to be sure. Well, if we're told that x 's should be than -10 to accomplish inequality, let's make sure it's true. Let's solve the expression with the 9 x and see if we're right. $10 - 4x \leq 50$ $10 - 4(-9) \leq 50$ $10 + 36 \leq 50$ $46 \leq 50$ it's right, so it's promising. But we found that x 's should be more than -10 , so our expression should also be AN INCORRECT if $x = 10$ were equal to -10 or if x 's were less than -10 . So let's see what happens if x and 10 . $10 - 4x \leq 50$ $10 - 4(-10) \leq 50$ $10 + 40 \leq 50$ $50 \leq 50$ Inequality is no longer correct. This means that we know for sure that the solution we found $x \geq 10$ is true. You will always be able to work backwards in a way that re-examines your inequality issues. While it may take a little longer, it may be worth your peace of mind to do so whenever you feel unsure of your answers. Ready, ready? It's trial time! Test your knowledge Now let's put all that inequality of knowledge on the test of some real ACT maths problems. 1. Inequality of $6(x^2) \leq 7(x-5)$ is equivalent to one of the following inequalities? A. $x \leq -23$ B. $x \leq 7$ C. $x \leq 17$ D. $x \leq 37$ E. $x \leq 47$ $x \leq 47$ compound inequalities guided notes pdf. compound inequalities guided notes doc. intro to compound inequalities guided notes answers. solving compound inequalities guided notes pdf

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