Conjunction and disjunction inequalities worksheet



A compound inequality is a combination of two inequalities in the compound inequalities in the compound inequalities in the compound inequalities is as same as that of a normal inequalities in the compound inequalities inequalities in the compound us see the process of solving compound inequalities and also how to graph them on the number line. What is a Compound Inequality? A compound inequality? A compound inequality is an inequality is an inequality is an inequality is an inequality is a compound inequality is x < 3". On the other hand, a compound inequality with "or" is always specifically mentioned using "or". The two types of compound inequalities are conjunction and the following are the differences between them, Conjunction It is a compound inequality in which the inequality is a compound inequality in the following are the differences between them, Conjunction It is a compound inequality in which the inequality is a compound inequality in which the inequality is a compound inequality in the following are the differences between them, Conjunction It is a compound inequality in which the inequality is a compound inequality in the following are the differences between them, Conjunction It is a compound inequality in the following are the differences between them. inequality in which the inequalities are joined by using "OR". Example: -2 < x < 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 They can be clubbed by using the "intersection" symbol (\cap) between the intervals representing them. For example, x > -2 AND x < 3"] Example: x < -2 OR x > 3 They can be clubbed by using the "intervals representing them. For example, x > -2 AND x < 3"] Example: x < -2 OR x > 3 They can be clubbed by using the "intervals representing them. For example, x > -2 AND x < 3"] Example: x < -2 OR x > 3 They can be clubbed by using the "intervals representing them. For example, x > -2 AND x < 3"] Example: x < -2 OR x > 3 They can be clubbed by using the "intervals representing them. For example, x > -2 AND x < 3"] Example: x < -2 OR x > 3 They can be clubbed by using the "intervals representing them. For example, x > -2 AND x < 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3"] Example: x < -2 OR x > 3 [or equivalently "x > -2 AND x < 3 [or equivalently "x > -2 AND x < 3 [or equivalently "x > -2 AND x < 3 [or equivalently "x > -2 AND x < 3 [or equivalently "x > -2 [or equivalently "x"union" symbol (U) between the intervals representing them. For example, x < -2 OR x > 3 can be written as (-∞, -2) U (3, ∞). Since its an "AND", the solution can contain the values that satisfy "Either or both" the inequalities. Compound Inequality Graph We can graph the compound inequalities on the number line. Keep the following things in mind when graphing compound inequalities. First look for the number line. For example, if we have x > 2, we need to see where 2 is on the number line. For example, if we have x > 2, we need to see where 2 is on the number line. For example, if we have x > 2, we need to see where 2 is on the number line. For example, if we have x > 2, we need to see where 2 is on the number line. For example, if we have x > 2, we need to see where 2 is on the number line. is either ">" or "" or ">" sign, draw an arrow to the right side of the number. For "". x < 4: Since we have "<". Finally, we look for the values on the number line that satisfy "BOTH" inequalities as the given compound inequality has "AND" in it. It is very clear from both arrows above that the region of intersection (common region) of both arrows is from 1 to 4 where 1 is not included and 4 is included. i.e., the solution of the given compound inequality is $1 < x \le 4$ and is shown by a "orange" line on the number line below. In the interval notation, the solution can be written as (1, 4]. Example of Graphing Compound Inequality with OR Graph the compound inequality $x \le -1$ OR x > 2. We will graph each inequality on the number line as follows: $x \le -1$: Since we don't have "=" at 2 we get an open dot at 2. Also, we draw an arrow to the right of 2 as we have ">". Since the given inequality has an "OR" in it, we just use "union" between them in the solution is $x \le -1$ OR x > 2 itself. In the interval notation, the solution is $(-\infty, -1] \cup (2, \infty)$. The solution is shown with "orange" line on the number line below. the merging of two simple inequalities. Hence, each of them can be solved in the same way as we solve a simple inequality (to know how to solve a simple inequality, click here) and then we club them according to what they gave (AND / OR) just like how it was explained in the previous section. Here is the step-by-step explanation of solving compound inequalities. Step 1: Identify two inequality. Note that the procedure of solving an inequality is as same as solving an equation but just reverse the sign of inequality when you are multiplying or dividing the inequality by a negative number. Step 3: Graph the solution of each inequality on the number line (as explained in the last section). Step 4: Take the "intersection" of the solutions if "OR" is given. If we are able to analyze the solution without graphing, then we can avoid Step 3. Graphing compound inequalities is not compulsory unless it is specifically mentioned to graph it. The above procedure is explained with examples (one of each of "AND" and "OR") below. Example of Solving Compound Inequality -2 < 2x - 3 < 5. We can solve it in two ways: one is without splitting into two; and the other is by splitting into two. Let us see both ways. Method 1: The given compound inequality is -2 < 2x - 3 < 5. Adding 3 on all the sides, -2 + 3 < 2x - 3 + 3 < 5 + 3 1 < 2x < 4. Hence, the direct solution is 1/2 < x < 4. (or) the interval (1/2, 4). Method 2: Split the given inequality into two inequality is -2 < 2x - 3 < 5 + 3 1 < 2x < 4. Hence, the direct solution is 1/2 < x < 4. Hence, the direct solution is 1/2 < x < 4. Adding 3 on both sides of each inequality, 2x > 1 AND 2x < 8 Dividing each inequality both sides by 2, x > 1/2 AND x < 4 Again, merging them back, 1/2 < x < 4 (or) the interval (1/2, 4). Example of Solving Compound Inequality with OR Solve the compound inequality -3x - 1 > -7 OR -5x + 2 < -12. Add 1 on both sides of the first inequality and subtract 2 from both sides of the second inequality. -3x > -6 OR -5x < -14 Divide the first inequality on both sides by -3 and the second inequality by -5. Note that the sign of the inequality by -5. Note that the sign of the inequality changes when we divide by a negative number. x < 2 OR x > 2.8 Hence, the solution is (- ∞ , 2) U (2.8, ∞). Important Notes on Compound Inequalities: A compound inequality involves more than one inequality merged with "AND", then merge their solutions by taking the intersection. If two inequalities are merged with "AND", then merge their solutions by taking the union. Graphing compound inequalities make the process of finding the union or intersection very easy. A compound inequality sometimes has "no solution." The given inequality is, -7 < -3x - 2 < 5 and represent the solution in the interval notation. Solution: The given inequality is, -7 < -3x - 2 < 5 Adding 2 on all the sides, $-5 < -3x \le 7$ Dividing all the sides by -3 (note that the signs of inequalities change as we are dividing by negative number), $5/3 > x \ge -7/3$ This can be written as $-7/3 \le x < 5/3$. Hence, the solution in the interval notation is [-7/3, 5/3]. Answer: [-7/3, 5/3] Example 2: Solve the compound inequality 2y - 2 ≤ 0 OR 3y ≥ 0 . Justify your solution by graphing it. Solution: Let us solve each of the inequalities for y. Then we get $2y \le 2$ OR $3y \ge 0$ y ≤ 1 OR $y \ge 0$ By taking the union of these two intervals, it seems like we get the set of all real numbers. Let us reconfirm by graphing them and then taking their union. Yes, both solutions together (their union) are covering the entire real numbers set, and hence the solution is the set of all real numbers. Answer: The solution: A compound inequality with "OR" can never be with no solution. So we will try to frame a compound inequality with "AND" which has no solution. x < 0 and x > 0 cannot have any solution as a number cannot be negative and positive at the same time and yes this can be the compound inequality that we are looking for. To give it more complex look, we can just multiply/divide/add/subtract some numbers on both sides. x < 0 and x > 0 2x < 0 and 3x > 0 2x - 2 < -2 and 3x + 5 > 5 Answer: 2x - 2 < -2 and 3x + 5 > 5. View Answer > go to slide go inequalities are combinations of two inequalities that are combined by either using "and" or "or". For example, 1 < x < 3 is nothing but "x > 1 and x < 3". What is Compound Inequality Example? A compound inequality example, 1 < x < 3 is nothing but "x > 1 and x < 3". inequality. How to Solve Compound Inequalities? To solve compound inequalities, just solve each of the two inequalities in it separately and combine them using How to Tell if a Compound Inequalities, "AND" or "OR" is usually mentioned explicitly like "x < 2 AND x > -1". But sometimes there can be inequality is AND or OR? For compound inequalities, "AND" or "OR" is usually mentioned explicitly like "x < 2 AND x > -1". But sometimes there can be inequality is AND or OR? For compound inequalities, "AND" or "OR" is usually mentioned explicitly like "x < 2 AND x > -1". But sometimes there can be inequality is AND or OR? For compound inequalities, "AND" or "OR" is usually mentioned explicitly like "x < 2 AND x > -1". But sometimes there can be inequality is AND or OR? For compound inequalities, "AND" or "OR" is usually mentioned explicitly like "x < 2 AND x > -1". But sometimes there can be inequality is AND or OR? For compound inequalities, "AND" or "OR" is usually mentioned explicitly like "x < 2 AND x > -1". 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For compound inequality and combine them using How to Tell if a Compound inequality and of the form -2 < x < 1 and it obviously means x > -2 AND x < 1. What is Compound inequality graph is the graph that shows the solution of the compound inequality graph is the graph that shows the solution of the compound inequality graph. depending on the sign of the inequality). Then find their intersection if "AND" is there in the given compound inequality (or) find their union if "OR" is there in the given compound inequality on it. then graph each inequality on it. then graph each inequality on the inequality on the sign of the inequality. the number line. then find their intersection/union depending on whether AND/OR is given in the inequality respectively. What Does And/Or Mean in Compound Inequalities. "OR" means each value in the solution interval should satisfy BOTH inequality?" AND Applications of Compound Inequality? The rate of burning of fuel in a two-wheeler is an example of a compound inequality with "AND".

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