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Next

Math	Number Line Graph
$x < 4$ and $x \geq -2$ $-2 \leq x < 4$ $[-2, 4)$ Solution has to contain double lines from above since it's an "and".	
$x \leq 1$ or $x > 4$ $(-\infty, 1] \cup (4, \infty)$ Solution just has to contain one line from above since it's an "or".	
$x < 4$ or $x \geq -2$ $(-\infty, \infty)$ Solution just has to contain one line from above, so we include the whole number line (All Reals).	
$x \leq 1$ and $x > 4$ \emptyset (no solution) Solution has to contain double lines, and since we don't have any, there is no solution (nothing on graph).	
$x \leq 1$ and $x \leq 4$ $(-\infty, 1]$ Solution has to contain double lines, so we only include where the graph is $x \leq 1$.	
$x \geq -1$ or $x \geq 4$ $[-1, \infty)$ Solution just has to contain one line from above, so the solution is $x \geq -1$.	

Name : _____

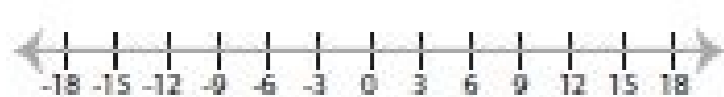
Score : _____

Solving & Graphing Inequalities

One-step: 51

Solve each problem and graph the solutions.

1) $x + 9 > 6$ or $x - 1 \leq -10$



2) $x - 2 \leq 3$ and $\frac{x}{7} > -5$



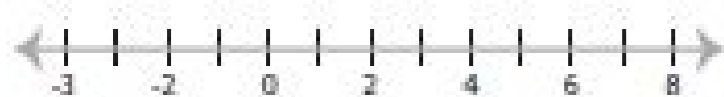
3) $4x < 8$ and $\frac{x}{3} \leq -2$



4) $x + 11 > 9$ or $8x \geq -24$



5) $\frac{x}{2} \leq 1$ or $x + 9 > 14$



6) $-4 < 2x \leq 16$



7) $3 \leq x - 6 < 12$



8) $x + 12 \geq 5$ and $\frac{x}{2} > 7$



Name : _____ Score : _____

Writing Inequalities

Write the inequality that best describes each graph :



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____



Inequality : _____

Name : _____

Score : _____

Identifying Solutions - MCQ

One-step: 51

Choose the correct solution that best describes each inequality.

1) $x + 6 \geq 14$ or $x - 2 \leq 3$

a) $x \leq 5$ or $x \geq 8$ b) $x \leq 5$
 c) $5 \leq x \leq 8$ d) $x \geq 8$

2) $2x < 12$ and $x - 1 \geq 2$

a) $x < 6$ b) $3 < x \leq 6$
 c) $x \leq 3$ d) $3 \leq x < 6$

3) $3x < 21$ or $5x > 55$

a) $x < -11$ or $x > 7$ b) $x < 7$ or $x > 11$
 c) $x < 7$ d) $x > -11$

4) $-5 \leq x + 15 < 7$

a) $x \geq -20$ b) $x < -8$
 c) $-20 \leq x < -8$ d) $-20 \leq x < 8$

5) $\frac{x}{2} > 4$ and $\frac{x}{9} < 2$

a) $x > 8$ and $x < 18$ b) $x < -18$
 c) $x > 8$ d) $-18 < x < 8$

6) $5x \geq 15$ or $x + 4 > 13$

a) $x \leq 3$ or $x > 9$ b) $x \geq 3$
 c) $3 \leq x < 9$ d) $x > 9$

7) $16 \leq 4x < 28$

a) $x \geq 7$ b) $x < 7$
 c) $7 \geq x > 4$ d) $4 \leq x < 7$

8) $8x \geq 32$ or $\frac{x}{9} > 2$

a) $x \geq 4$ b) $4 \leq x < 18$
 c) $x > 4$ d) $x \geq 18$

9) $7x \geq 49$ or $2x < -16$

a) $x \geq 7$ b) $-8 < x \leq 7$
 c) $x < -8$ or $x \geq 7$ d) $x < -8$

10) $10 + x \geq 7$ and $3x \leq 36$

a) $3 \leq x \leq 12$ b) $x \leq 12$
 c) $x \geq -3$ d) $x \geq -3$ and $x \leq 12$

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Name: _____ Score: _____

Identifying Inequalities

Choose the correct inequality that best describes each graph.

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The time is represented on the horizontal axis with waves that show the recorded information. These types of graphs are often used to show trends and patterns for different categories or subject matters that exist. Advantages: Ability to use for showing the connection of large amounts of data Work for most types of data and subject matters Provide an accurate flow of information being conveyed Disadvantages: Can be difficult for everyone to follow Easy to manipulate data for false results Time-series Graphs A time-series graph is a chart that shows data recordings taken at regular time intervals. Photo Courtesy: Aidan Leitch/Creative Commons Graphs and charts are visual aids that allow you to convey data and statistics to your audience during a presentation. These charts use dots to represent the frequency of information. Unlike a bar graph, a histogram only displays a single variable. The first known use of bar graphs was in 1917. Advantages: Graph can be created proportionally to the quantity it needs to represent Displays multiple classes of data in one chart Puts large sums of data into visual form for easy understanding More visually appealing than other graphs Offers easy calculations of data accuracy Requires little explanation Understood easily by different departments within a business and for media purposes Disadvantages: Doesn't reveal exact values Multiple graphs are needed for time-lapse data Key assumptions, causes, effect, and patterns are not revealed Manipulated easily, causing false impressions or interpretations Bar Graph & Pareto Graph Similar to a pie chart, a bar graph uses rectangles or narrow columns to show data comparisons. The height of the bar graph that is shaded in represents different amounts. While each feature advantages and disadvantages, some common benefits exist. Graphs make the data more convincing and provide a way to engage your audience during your presentation. This usually consists of putting the first value into the stem column and last digits into the leaf column. The position in which dots are placed along the horizontal and vertical lines represent the value for that data point. Don't miss the learning experience awaiting you in our free compound inequalities worksheets. Compound inequalities with "and" indicate an overlap or intersection and suggest both conditions must be true, while those with "or" indicate a union and suggest either of the conditions is true. A Pareto graph or chart is a type of bar graph that also features a line graph. Let's explore some of the main graphs that are in use. Pie Chart or Circle Graph A pie chart is a graph that features a circle cut into different sectors or "pie slices." For this reason, they are also called circle graphs. Advantages: Allows for the understanding of past behaviors and future predictions Subject matters are identified easily Offers comparisons of two subjects at the same time Gives the ability to follow present performance more closely Disadvantages: Not always accurate with finding Factors causing fluctuation cannot always be adjusted as needed Factors being monitored may not always stay the same over extended time periods, causing unreliable data MORE FROM REFERENCE.COM Advantages: Work well for displaying large ranges of data or information Intervals are always equal, allowing for consistency with data Easy to transform data from frequency forms to graph forms Disadvantages: Impossible to extract an exact amount for input Inability to compare multiple points of data in one chart Stem and Leaf Plots Stem and leaf plots are charts that allow you to split data values into a "stem" and "leaf" pattern. Often used for conveying statistical information. Each sector stands for a relative size of value for a whole, with proportionate sizing for the quantity it represents. Classified into three difficulty levels based on the number of steps that go into solving these compound inequalities, these pdfs perfectly fit around. This type of graph is used for showing the frequency of the values that occur. Advantages: Provide simplified methods for keeping scores Easy to use and create Can handle large amounts of data in an organized manner Offers the ability to show ranges, minimums, and maximums for numbers quickly Disadvantages: Not a visually appealing method for interesting an audience Can become messy and disorganized when a lot of data is added Longer ranges and variances can be difficult to break down into useful data categories Dot Plots Dot plots are graphs used for displaying small sets of data and groups. Our printable compound inequalities worksheets help grade 8 and high school students make headway through solving and graphing inequalities that are joined together by the words "and" or "or". Advantages: Each data category is displayed in a frequency distribution pattern Allows for visualization of relative numbers or proportions of multiple categories Easy summarization of large sets of data Clearer understanding of trends over table charts Offers estimated values of key factors at a glance Gives the ability to check the accuracy of calculations visually Easy for multiple levels within a company or audience to understand the information presented Disadvantages: Additional explanation is required Can be manipulated to show false results Unable to show key assumptions, causes, effects, or patterns present Histogram First created by Karl Pearson, a histogram is a plot or chart that allows you to show the underlying frequency distribution of a continuous set of variables. Different types of graphs can be used, depending on the information you are conveying. Dots are displayed in columns that coincide with certain categories. Advantages: Easy to create Ability to show different categories in one graph Doesn't require the use of computer for creating Disadvantages: Not visually appealing Can be difficult to read with large amounts of data Only works well with small sets of information Scatterplots A scatterplot is a graph that uses a series of dots to represent two different values of information being compared.

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