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Solving inequalities worksheet

The inequality $5a - 4 > 2a + 8$ Firstly, add 4 to both sides of the inequality to get, $\begin{aligned} \texttt{\textcolor{black}{begin}\texttt{\textcolor{blue}{aligned}}\texttt{\textcolor{black}{(textcolor{brown}{(maroon}{-4})\texttt{\textcolor{blue}{+4}})\texttt{\textcolor{black}{(5a-4)}}\texttt{\textcolor{blue}{+4}}} = 5a-0 \texttt{\textcolor{blue}{+4}}\texttt{\textcolor{black}{(2a+8)}} \texttt{\textcolor{blue}{+4}} = 2a+12 \end{aligned}}}$ Then, subtract 2a from both sides to get, $\begin{aligned} \texttt{\textcolor{black}{begin}\texttt{\textcolor{blue}{aligned}}\texttt{\textcolor{black}{(textcolor{brown}{(maroon}{-2a})\texttt{\textcolor{blue}{+2a}})\texttt{\textcolor{black}{(5a-4)}}\texttt{\textcolor{blue}{+4}}} = 5a-0 \texttt{\textcolor{blue}{+4}}\texttt{\textcolor{black}{(2a+12)}} \texttt{\textcolor{blue}{+4}} = 2a+12 \end{aligned}}$ Finally, divide both sides by 3 to get, $\begin{aligned} \texttt{\textcolor{black}{begin}\texttt{\textcolor{blue}{aligned}}\texttt{\textcolor{black}{(textcolor{brown}{(maroon}{+3})\texttt{\textcolor{blue}{+3}})\texttt{\textcolor{black}{(5a-4)}}\texttt{\textcolor{blue}{+4}}} = 5a-0 \texttt{\textcolor{blue}{+4}}\texttt{\textcolor{black}{(2a+12)}} \texttt{\textcolor{blue}{+4}} = 2t+12 \end{aligned}}$ Grade 4-5GCSE/AQA/Edecel/OJC/Edecel IGCSE Teaming with adequate practice our printable inequalities worksheets come with a host of learning takeaways like completing inequality statements, graphing inequalities on a number line, constructing inequality statements from the graph, solving different types of inequalities, graphing the solutions using appropriate rules and much more for students in grade 6 through high school. Solutions to inequalities are infinite and are presented as an interval. Kick-start practice with our free inequalities worksheets! Completing Inequality Statements Tackle this batch of printable inequalities worksheets by plugging each of the four options in the inequality statement. Grade 6 students circle all the possible values that make the inequality statement true. Identifying the Solution Graph If buffering up skills in solving and graphing inequalities is on your mind, then these printable inequalities worksheets should be your obvious choice. Students choose the graph that best describes the solution for each single variable inequality. Identifying Inequalities from Number Lines Observe the graph in these pdfs keenly and construct an inclusive inequality with a closed circle or a strict one with an open circle. Students in 7th grade and above can also draw logical conclusions, whether the interval with a bracket or parenthesis is the right solution to the inequality. The task in these pdfs for grade 8 and high school students is to choose the correct interval notation that best describes each inequality. Translating Inequality Phrases Worksheets Primarily focusing on reading phrases and converting them into algebraic inequalities, these printable worksheets are sure to give students an insight into comprehending inequalities and their real-life connection. (12 Worksheets) One Step Inequalities Worksheets Are you looking for a variety of exercises to introduce or recapitulate one-step inequalities? Then be assured you are in the right place. With a host of pdfs for your 6th grade students to choose from, there'll be no dearth of practice material. (51 Worksheets) Two Step Inequalities Worksheets Refine your skills in solving and graphing inequalities in two simple steps. Grade 7 students separate the like terms on either side of the inequality. Use inverse operations to isolate the variable and solving the inequality will be duck soup. 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Each solving inequalities worksheet can be downloaded as a printable PDF file that includes a complete answer key. You can preview and/or download any worksheet by clicking on any of the blue text links shared in the library below. When you click on a link, you can preview the worksheet and the corresponding answer key along with the option to save the file or send it to your printer to be printed in either black-and-white or in color. Directly below the solving inequalities worksheet library, you will find a review section that includes a few step-by-step example problems of how to solve inequalities in case you or your students need a quick tutorial on how to solve the types of problems that you will find on our solving inequality worksheets. All of the free PDF worksheets included in the library below are sample worksheets from the Mashup Math K-12 Infinite Math Worksheet Libraries, where you can download hundreds of printable topic-specific math worksheets. 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When you click on a link, you can preview the worksheet and the corresponding answer key along with the option to save the file or send it to your printer to be printed in either black-and-white or in color. Directly below the solving inequalities worksheet library, you will find a review section that includes a few step-by-step example problems of how to solve inequalities in case you or your students need a quick tutorial on how to solve the types of problems that you will find on our solving inequality worksheets. All of the free PDF worksheets included in the library below are sample worksheets from the Mashup Math K-12 Infinite Math Worksheet Libraries, where you can download hundreds of printable topic-specific math worksheets. 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