Rationalizing denominators worksheet

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It also helps in the development of reasoning skills. These skills are important and can give students a lifelong advantage. These worksheets can enhance the students learning to a great extent thus giving them a strong mathematical foundation. Solving math worksheets based on different topics can also boost a student’s confidence and help them score well in school as well as competitive exams. Why is Math Worksheet Important for Students? Math worksheets play a very important role in learning the concepts clearly. It helps the teacher to assign questions related to all the topics to kids in the form of worksheets. Practicing these math worksheets regularly helps students to improve their speed and accuracy by understanding the concepts clearly. Organizing the completed worksheets would help the parents to track the kid’s progress. Math worksheets help the children to be active. 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Our math worksheets exist to achieve two goals: To facilitate a clear understanding of concepts and reinforce the importance of internalizing first principles. To aid in the retention of concepts gained via targeted practice. Math worksheets are documents available online or offline that consist of a list of practice questions on a particular topic. They are driven towards supplementing a child’s learning at school and help him to improve his mathematical skills. The questions are presented in a structured way to help students develop crystal clear concepts. Is It Necessary to Use Math Worksheets? Math worksheets are an amazing way to find a host of practice sums. As kids are exposed to several different types of problems they get an idea of what kind of questions will be framed in an examination. Thus, it is advisable to incorporate math worksheets as part of your regular curriculum. Can Math Worksheets Help in Understanding Concepts? Once a child is introduced to a topic, the only way to gauge his understanding of it is by solving practice questions. Math worksheets help kids to instill crystal clear concepts as they test a child’s knowledge and help them to improve in areas that might be problematic. Hence, they prove to be a good resource that children can use for instilling a robust mathematical foundation. How Can Math Worksheets Help to Boost Problem-solving Skills? Math worksheets help kids analyze problems, break them down into chunks, and then solve them. As children get conditioned to interpreting the why and how behind a question they can improve their problem-solving abilities. In addition to this, they also learn many transferable skills such as critical thinking, logic, reasoning, and analytical abilities. What is the Best Way to Attempt Math Worksheet Questions? A well-structured math worksheet has sections with a gradual increase in the level of difficulty. Hence, always solve the math worksheet in the given order of organization to get the maximum benefit and try not to skip any questions. Are Math Worksheets Useful for Competitive Exams? The purpose of math worksheets is to provide practice sums to children enabling them to master the topic within no time. Thus, these worksheets are created in a way so that irrespective of the examination, be it school or competitive, a child develops the required knowledge and skill to successfully attempt it. How Can Math Worksheets be Used to Improve Concentration Levels? Several online math worksheets are interactive with relevant images. Additionally, they are equipped with fun graphics that improve the level of engagement and motivation to solve more sums. If kids are having fun while solving worksheet questions their concentration will automatically improve. Rationalization is a process that finds application in elementary algebra, where it is used to eliminate the irrational number in the denominator. There are many rationalizing techniques which are used to rationalize the denominator. The word rationalize literally means making something more efficient. Its adoption in mathematics means making the equation reduced into its more effective and simpler form. Rationalization can be considered as the process used to eliminate a radical or an imaginary number from the denominator of an algebraic fraction. That is, remove the radicals in a fraction so that the denominator only contains a rational number. Let us recall some important terms relating to the concept of rationalization in this section. Radical A radical is an expression that uses a root, such as a square root, cube root. For example, an expression of the form: √(a + b) is radical. Radicand Radicand is the term we are finding the root of. For example, In the following figure, (a + b) is the radicand. Radical Symbol The √ symbol means "root of". The length of the horizontal bar is important. The length of the bar signifies variables or constants that are a part of the root function. The variables or constants that are not under the root symbol are hence not part of the root. Degree The degree is the number depicted in the figure below. 2 means square root, 3 means cube root. Further, they are referred to as 4th root, 5th root, and so on. If this is not mentioned, we take it as square root by default. Conjugate A math conjugate of any binomial means another exact binomial with the opposite sign between its two terms. For example, the conjugate of (x + y) is (x - y) or vice versa. Thus, both these binomials are conjugates of each other. Surds are irrational numbers that cannot be further simplified in their radical form. For example, an irrational number √8 can be simplified further as 2√2, whereas √2 cannot be simplified any further. Thus √2 is a surd. Examples of a monomial radical: √6, 3√2, \(\sqrt[3]{2}\) Examples of a binomial radical: √3 + √6, 1 - √2 The procedure to rationalize an expression depends on the radical if that is monomial or binomial. Rationalizing a Monomial Radical To rationalize a surd or radical, in the denominator, different steps are to be followed depending upon the degree of the polynomial or the fact that if the radical is a monomial or polynomial. Any polynomial with only one term is called a monomial. \(\sqrt{2}\), \(\sqrt{7} \text x \), \(\sqrt[3]{7 \text x }\), etc. could be in the denominators. Procedure: 1) Suppose the denominator contains a radical, as in this fraction:a/√ b. Here, the radical must be multiplied and divided by √ b and further simplified. 2) For a polynomial with a monomial radical in the denominator, say of the form, \(\text a \sqrt[\text m]{ \text x^ \text n }\), such that n < m, the fraction must be multiplied by a quotient containing \(\text a \sqrt[\text m]{ \text x^{ (\text m - \text n)} }\), both in the numerator and denominator. This gives us the result \(\text a \sqrt[\text m]{ \text x ^ \text m}\), which can be replaced by \(\text x \) and hence free of the radical term. Let us go through this technique step by step using the following examples. Example: Let us rationalize the fraction: 2/√7. Step 1. Examine the fraction - The given fraction has a monomial radical √7 in the denominator that should be rationalized. Note that the numerator can have a radical, so you don't need to worry about the numerator while examining the fraction or simplifying it. Step2. Multiply the fraction in the numerator and denominator by √7. \(\dfrac{2 \times \sqrt{7}}{\sqrt{7} \times \sqrt{7}}\) Step3. Simplify the expression as needed. \(\dfrac{2 \times \sqrt{7}}{\sqrt{7} \times \sqrt{7}} = \dfrac{2\sqrt{7}}{7}\) Rationalizing a Binomial Radical If the denominator has a radical expression of the form \(\text a +\sqrt{ \text b}\) or \(\text a+ \text i \sqrt{ \text b}\), the fraction must be multiplied by the conjugate of the expression i.e., \(\text a -\sqrt{ \text b }\) or \(\text a - \text i \sqrt{ \text b }\) both in the numerator and denominator. Procedure: Suppose the denominator contains a radical expression, (a + √b) or (a + \(i\)√b). Here, the radical must be multiplied by its conjugate. Example: Let us have a look at the following fraction, \(\dfrac{5}{2-\sqrt{3}}\). The denominator needs to be rationalized. \(\dfrac{5}{2-\sqrt{3}}\times \dfrac{2+\sqrt{3}}{2+\sqrt{3}}\). This is further simplified and evaluated as 5(2 + √3). The denominator is further expanded following the suitable algebraic identities. Example: Let us learn the technique to rationalize the following fraction: \(\frac{\sqrt{7}}{2 + \sqrt{7}}\) Step1. Examine the fraction - The denominator of the above fraction has a binomial radical i.e., is the sum of two terms, one of which is an irrational number. Step2. Multiply the numerator and denominator of the fraction with the conjugate of the radical. \(\dfrac{\sqrt{7}}{2 + \sqrt{7}} \times \dfrac{2 - \sqrt{7}}{2 - \sqrt{7}}\) Step3. Simplify the expression as needed. \(\dfrac{\sqrt{7}}{2 + \sqrt{7}} \times \dfrac{2 - \sqrt{7}}{2 - \sqrt{7}}\) Using difference of squares algebraic property, [(a + b)(a - b) = a2 - b2] \(\dfrac{\sqrt{7}}{2 + \sqrt{7}} \times \dfrac{2 - \sqrt{7}}{2 - \sqrt{7}}\) = \(\dfrac{2\sqrt{7} - \sqrt{7} \times \sqrt{7}}{(2)^2 -\sqrt{7}^2}\) = \(\dfrac{2\sqrt{7} - 7}{4 - 7}\) = \(\dfrac{7 - 2\sqrt{7}}{3}\) Rationalizing a Cube Root This method can be generalized to roots of any order while rationalizing. For the given fraction with cube root radical in the denominator, \(\dfrac{1}{\sqrt[3]{5}}\), we can follow the given steps, Step1. Examine the fraction - The fraction has a radical in the form of a cube root in the denominator. Step2. Multiply the numerator and denominator of the fraction by a factor that makes the exponent of the denominator 1. In this case, that factor would be \(5^\frac{2}{3}\). \(\dfrac{1}{\sqrt[3]{5}} \times \dfrac{5^{2/3}}{5^{2/3}}\) Step3. Simplify the expression as needed. \(\dfrac{1}{\sqrt[3]{5}} \times \dfrac{5^{2/3}}{5^{2/3}}\) = \(\dfrac{5^{2/3}}{5^{1/3 \times 5^{2/3}}\) = \(\dfrac{5^{2/3}}{5^{1/3 + 2/3}}\) = \(\dfrac{5^{2/3}}{5}\) = \(\sqrt[3]{25}\)/5 When you look at the definition of "rationalize", it will become clearer as to what exactly rationalizing a denominator means. The numbers like \(\frac{1}{2}\), 5 and 0.25 are all rational numbers i.e., they can be expressed as a ratio of two integers like \(\frac{1}{2}, \frac{5}{1}, \frac{1}{4} \) respectively . Whereas, some radicals are irrational numbers because they cannot be represented as the ratio of two integers. Thus, the denominator needs to be rationalized to make the expression become a rational number. The following table gives the equivalent rational values of an irrational number. Irrational Rational \(\dfrac{1}{\sqrt{7}}\) \(\dfrac{\sqrt{7}}{7}\) \(\dfrac{4}{\sqrt{3}}\) \(\dfrac{4 \sqrt{3}}{3}\) \(\dfrac{4 + \sqrt{7}}{\sqrt{7}}\) \(\dfrac{4 \sqrt{7} + 7}{7}\) The steps given below can be followed to rationalize the denominator in a fraction, Step 1: Multiply the denominator and numerator by a suitable radical that will remove the radicals in the denominator. Step 2: Make sure all surds in the fraction are in the simplified form. Step 3: You can simplify the fraction further if needed. Related Articles on Rationalization Check out the following pages related to rationalization Important Notes Here is a list of a few points that should be remembered while studying rationalization: Rationalization can be considered as the process used to eliminate a radical or imaginary number from the denominator of an algebraic fraction. That is, remove the radicals in a fraction so that the denominator only contains a rational number. A radical is an expression that uses a root, such as a square root, cube root. For example, an expression of the form: √(a + b) is radical. A math conjugate of any binomial means another exact binomial with the opposite sign between its two terms Example 1: Rationalize: \(\frac{1}{3 + \sqrt{10}}\) Solution: The given fraction has a binomial radical, \(3 + \sqrt{10}\) in the denominator that needs to be rationalized. Multiplying both the numerator and denominator by the conjugate of the binomial radical i.e., \(3 - \sqrt{10}\), We get, \(= \frac{1}{3 + \sqrt{10}} \\ = \frac{1}{3 + \sqrt{10}} \times \frac{3 - \sqrt{10}}{3 - \sqrt{10}} \) \(\begin{align*} & & \because & (\text a + \text b)(\text a - \text b) &= \text a ^2 - \text b ^2 \end{align*}\) \(\begin{align*} &= \frac{3 - \sqrt{10}}{3^2 - \sqrt{10}^2 } \\ \\ &= \frac{3 - \sqrt{10}}{9 - 10} \\ \\ &= \frac{3 - \sqrt{10}}{-1} \end{align*} \) Dividing the numerator by -1, −3 + √10 Answer: −3 + √10 Example 2: Rationalize the given fraction, \(\frac{1}{\sqrt{2} + \sqrt{5}}\). Solution: The given fraction, \(\frac{1}{\sqrt{2} + \sqrt{5}}\) has radical in both the terms of the denominator that need to eliminated. Multiplying the numerator and denominator by the conjugate of the fraction, \(\sqrt{2} - \sqrt{5}\), we get, \(\begin{align*} \dfrac{1}{\sqrt{2} + \sqrt{5}} \times \dfrac{\sqrt{2}-\sqrt{5}}{\sqrt{2}-\sqrt{5}} \end{align*}\) \(\begin{align*} & & \because & (\text a + \text b)(\text a - \text b) &= \text a ^2 - \text b ^2 \end{align*}\) \(\begin{align*} &= \dfrac{\sqrt{2} - \sqrt{5}}{ \sqrt{2}^2 - \sqrt{5}^2} \\ \\ &= \dfrac{\sqrt{2} - \sqrt{5}}{ 2 - 5} \\ \\ &= \dfrac{\sqrt{2} - \sqrt{5}}{ -3 } \end{align*} \) Taking \(-1 \) common out of the numerator, \(= -\dfrac{\sqrt{5} - \sqrt{2}}{-3 } \) Cancelling the negative sign from both the numerator and denominator, \(= \dfrac{\sqrt{5} - \sqrt{2}}{ 3 } \) \(\therefore\) \(\dfrac{\sqrt{5} - \sqrt{2}}{ 3 }\) go to slidego to slide Breakdown tough concepts through simple visuals. Book a Free Trial Class go to slidego to slide Rationalization is the process of removing a radical or surd from the denominator and shifting it to the numerator. By rationalizing, we make a denominator of a fraction as a rational number. What Is Method to Rationalize Radicals in Denominators? The radical present in the denominator of a fraction can be rationalized in the following way, Step 1: Multiply numerator and denominator by a suitable radical that will remove the radicals in the denominator. Step 2: Make sure all radicals are in the simplified form. Step 3: Simplify the fraction further if needed. How Do You Rationalize Surds? When the denominator of a fraction contains a surd, both numerator and denominator are multiplied with that value. The denominator product is solved, thereby giving a rationalized denominator. Why Do We Rationalize Denominators? If the denominator is linear in terms of a radical, both numerator and denominator are multiplied with a value such that the denominator product is expanded and becomes rationalized. For the denominator with a radical expression of the form a + √b or a + \(i\)√b, the fraction must be multiplied by the conjugate of the expression i.e., a - √b or a - \(i\)√b. What Are the Rules of Rationalization? The following rules can be followed while rationalizing a denominator, Check if all the radical or surds are in simplified form. Find the suitable radical and multiply it in the numerator and denominator that will remove the radicals in the denominator. What Is an Example of Rationalization? Any fraction with an irrational number in the denominator can be rationalized to remove the radical from the denominator. For example, The fraction √(36/7) can be simplified by rationalization as, Step 1: Simplify the given fraction as 6/√7. Step 2: Multiply the numerator and denominator by √7, to give 6√7/7 Why Do We Rationalize Surds? We rationalize the surds or radicals present in the denominator of a fraction, to make the denominator a rational number. In order to do so, we generally multiply both numerator and denominator by a suitable radical and simplify.

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