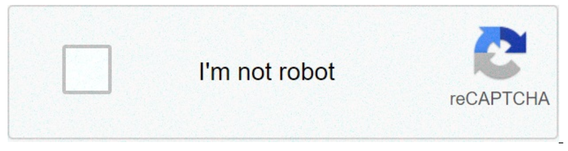

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The rational number between 2 and 3 is

Hi, First draw a number line and mark on it -2 and -3. Step 1: Find a rational number between -2 and -3. Step 2: Find a rational number between the one you just found in step 1 and -2 and then another rational number between the one you found in step 1 and -3. Continue. Penny Try our Mini CourseMaster Important Topics in 7 DaysLearn from IITians, NITians, Doctors & Academic ExpertsDedicated counsellor for each studentDetailed Performance Evaluationview all courses The questions posted on the site are solely user generated, Doubtnut has no ownership or control over the nature and content of those questions. Doubtnut is not responsible for any discrepancies concerning the duplicity of content over those questions. In arithmetic, a rational number is one that can be written as the quotient p⁄q of two numbers with q ≠ 0. The set of rational numbers also contains all integers, which can be represented as a quotient with the integer as the numerator and 1 as the denominator. Rational numbers are either terminating or recurring decimals in decimal form.Examples of Rational Numbers1/2, 1/5, 3/4, and so on are some examples of rational numbers. The number “0” is also rational since it may be represented in a variety of ways, including 0/1, 0/2, 0/3, and so on. However, 1/0, 2/0, 3/0, and so on are irrational because they give us unlimited values.How to Find the Rational Numbers between Two Rational Numbers?Between two rational numbers, there exist “n” numbers of rational numbers. Two alternative approaches can be used to find the rational numbers between two rational numbers. Let’s have a look at the two distinct approaches.Approach 1:Calculate the equivalent fractions of the given rational numbers and calculate the rational numbers in between them. Those figures should be the necessary reasonable figures.Approach 2:Calculate the mean of the two rational numbers supplied. The necessary rational number should be the mean value. Repeat the method with the old and newly obtained rational numbers to find more rational numbers.Solution:Approach 1:Let us follow the first approach to find out the rational number between 1⁄2 and 3⁄4.The equivalent fraction for 1⁄2 can be 2⁄4 and for 3⁄4 can be 6⁄8.Now, the numbers are 2⁄4 and 6⁄8, so the required rational number can be in between these numbers.The numerator and denominator of the required number should be between the given number, i.e., numerator can be 3 and denominator can be 5.Hence, the rational between 1⁄2 and 3⁄4 is 3⁄5.Approach 2:Let us follow the second approach to find out the rational number between 1⁄2 and 3⁄4.The formula to calculate the mean is given as:m = sum of the terms/number of the termsHere, the given terms are 1⁄2 and 3⁄4, so the mean is:m = ((1⁄2) + (3⁄4)) / 2 = 5 / 8Hence, the rational number between 3 and 4 is 5/8.Similar QuestionsProblem 1: What is the rational number between 1⁄5 and 1⁄4?Solution:Here, the given terms are 1⁄5 and 1⁄4, so the mean is:m = ((1⁄5) + (1⁄4)) / 2 = 9 / 40Problem 2: What is the rational number between 3⁄8 and 1⁄3?Solution:Here, the given terms are 3⁄8 and 1⁄3, so the mean is:m = ((3⁄8) + (1⁄3)) / 2 = 17 / 48Attention reader! Don’t stop learning now. Join the First-Step-to-DSA Course for Class 9 to 12 students , specifically designed to introduce data structures and algorithms to the class 9 to 12 studentsPage 2A rational number is a sort of real number that has the form p/q where q≠0 in mathematics. We may also classify any fraction as a rational number if the denominator and numerator are both integers and the denominator is not equal to zero. When a rational number is split, the result is a decimal number, which can be either a terminating or a recurring decimal.Examples of Rational NumbersThe number “0” is also rational since it may be represented in a variety of ways, including 0/1, 0/2, 0/3, and so on. However, 1/0, 2/0, 3/0, and so on are irrational because they give us unlimited values.How to Find the Rational Numbers between Two Rational Numbers?Between two rational numbers, there exist “n” numbers of rational numbers. 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Repeat the method with the old and newly obtained rational numbers to find more rational numbers.Find a rational number between 3/5 and 2/3Solution:Approach 1:Let us follow the first approach to find out the rational number between 3⁄5 and 2⁄3.The equivalent fraction for 3⁄5 can be 6⁄10 and for 2⁄3 can be 8⁄12.Now, the numbers are 6⁄10 and 8⁄12, so the required rational number can be in between these numbers.The numerator and denominator of the required number should be between the given number, i.e., numerator can be 7 and denominator can be 11.Hence, the rational between 3⁄5 and 2⁄3 is 7⁄11.Approach 2:Let us follow the second approach to find out the rational number between 3⁄5 and 2⁄3.The formula to calculate the mean is given as:m = sum of the terms/number of the termsHere, the given terms are 3⁄5 and 2⁄3, so the mean is:m = ((3⁄5) + (2⁄3)) / 2= ((9 + 10) / 15) / 2= 19 / 30Hence, the rational number between 3 and 4 is 19/30.Similar QuestionsProblem 1: What is the rational number between 1⁄2 and 1⁄4?Solution:Here, the given terms are 1⁄2 and 1⁄4, so the mean is:m = ((1⁄2) + (1⁄4)) / 2= 3 / 8Problem 2: What is the rational number between 2⁄5 and 3⁄4?Solution:Here, the given terms are 2⁄5 and 3⁄4, so the mean is:m = ((2⁄5) + (3⁄4)) / 2= 23 / 40Attention reader! Don’t stop learning now. Join the First-Step-to-DSA Course for Class 9 to 12 students , specifically designed to introduce data structures and algorithms to the class 9 to 12 studentsPage 3We utilize numbers in our daily lives. A numeral is a common term used to describe them. Without numbers, we can’t count items, dates, times, money, or anything else. Sometimes these numbers are used for measuring, and other times they are used for labeling. Numbers have properties that enable them to perform arithmetic operations. These figures are presented in both numerical and verbal forms. In math, there are several different types of numbers such as natural numbers, whole numbers, integers, real numbers, rational numbers, irrational numbers, complex numbers.What is a Rational Number?A rational number is a sort of real number that has the form p/q where q≠0 in mathematics. We may also classify any fraction as a rational number if the denominator and numerator are both integers and the denominator is not equal to zero. When a rational number is split, the result is a decimal number, which can be either a terminating or a recurring decimal.Examples of Rational Numbers0.75 is a rational number since it can be represented as a fraction, 0.75 = 3⁄4. 90/12007 is a rational fraction. The number 12 can alternatively be written as 12/1. It’s a rational number once more.How to Find the Rational Numbers between Two Rational Numbers?Between two rational numbers, there exist “n” numbers of rational numbers. Two alternative approaches can be used to find the rational numbers between two rational numbers. Let’s have a look at the two distinct approaches.Approach 1:Calculate the equivalent fractions of the given rational numbers and calculate the rational numbers in between them. 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Repeat the method with the old and newly obtained rational numbers to find more rational numbers.Solution:Approach 1:Let us follow the first approach to find out the rational number between 4 and 6.The equivalent fraction for 4⁄1 can be 16⁄4 and for 6⁄1 can be 12⁄2.Now, the numbers are 16⁄4 and 12⁄2, so the required rational number can be in between these numbers.The numerator and denominator of the required number should be between the given number, i.e., numerator can be 15 and denominator can be 3.Hence, the rational between 4 and 6 is 15⁄3 or 5.Approach 2:Let us follow the second approach to find out the rational number between 4 and 6.The formula to calculate the mean is given as:m = sum of the terms/number of the termsHere, the given terms are 4 and 6, so the mean is:m = (4 + 6) / 2 = 10 / 2 = 5Hence, the rational number between 4 and 6 is 10/2 or 5.Similar QuestionsProblem 1: What is the rational number between 5 and 6?Solution:Here, the given terms are 5 and 6, so the mean is:m = (5 + 6) / 2 = 11 / 2 = 5.5Problem 2: What is the rational number between 1 and 2?Solution:Here, the given terms are 1 and 2, so the mean is:m = (1 + 2) / 2 = 3 / 2 = 1.5Attention reader! Don’t stop learning now. Join the First-Step-to-DSA Course for Class 9 to 12 students , specifically designed to introduce data structures and algorithms to the class 9 to 12 studentsPage 4We utilize numbers in our daily lives. A numeral is a common term used to describe them. Without numbers, we can’t count items, dates, times, money, or anything else. Sometimes these numbers are used for measuring, and other times they are used for labeling. Numbers have properties that enable them to perform arithmetic operations. These numbers are provided both numerically and verbally. For example, 4 is written as four, while 44 is written as forty-four.The number system is a system for categorizing numbers into sets. A rational number is one of the types to categorize a number system.What is a Rational Number?A rational number is a sort of real number that has the form p/q where q≠0 in mathematics. We may also classify any fraction as a rational number if the denominator and numerator are both integers and the denominator is not equal to zero. When a rational number is split, the result is a decimal number, which can be either a terminating or a recurring decimal.Examples of Rational Numbers3, 4, 5, and so on are some examples of rational numbers as they can be expressed in fraction form as 3/1, 4/1, and 5/1. The number “0” is also rational since it may be represented in a variety of ways, including 0/1, 0/2, 0/3, and so on. However, 1/0, 2/0, 3/0, and so on are irrational because they give us unlimited values.Between two rational numbers, there exist “n” numbers of rational numbers. Two alternative approaches can be used to find the rational numbers between two rational numbers. Let’s have a look at the two distinct approaches.Approach 1:Calculate the equivalent fractions of the given rational numbers and calculate the rational numbers in between them. 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Hence, 7⁄2 is a rational number.Problem 2: Determine whether 3.75 is a rational number.Solution:A rational number is a sort of real number that has the form p/q where q≠0. When a rational number is split, the result is a decimal number, which can be either a terminating or a recurring decimal.Here, the given number, 3.75 has a terminating decimal. Also, we can express the number in fraction form as 15⁄4. Hence, 3.75 is a rational number.Attention reader! Don’t stop learning now. Join the First-Step-to-DSA Course for Class 9 to 12 students , specifically designed to introduce data structures and algorithms to the class 9 to 12 studentsPage 5In mathematics, a rational number is a kind of real number of the form p/q where q is not equal to 0. If the denominator and numerator are both integers and the denominator is not zero, we can categorize any fraction as a rational number. The outcome of splitting a rational number is a decimal number, which can be either a terminating or recurring decimal. Examples of Rational Numbers17 and -34 are rational numbers. It’s worth noting that the same rational number can be written in several ways as a ratio of integers.7 and 21⁄3 are the same rational number.How to Find the Rational Numbers between Two Rational Numbers?Between two rational numbers, there exist “n” numbers of rational numbers. Two alternative approaches can be used to find the rational numbers between two rational numbers. Let’s have a look at the two distinct approaches.Approach 1:Calculate the equivalent fractions of the given rational numbers and calculate the rational numbers in between them. Those figures should be the necessary reasonable figures.Approach 2:Calculate the mean of the two rational numbers supplied. The necessary rational number should be the mean value. 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the rational number between 1/2 and 1/3 is. the number of rational numbers between two rational numbers 2/5 and 3/7 is. the rational number between 1/2 and 3/4 is. the rational number between 1/2 and 3/5 is. the rational number not lying between 3/5 and 2/3 is. the rational number not lying between 1/3 and 1/2 is. the rational number which does not lie between 2/7 and 3/7 is. the rational number between root 2 and root 3 is

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