Square root of 11
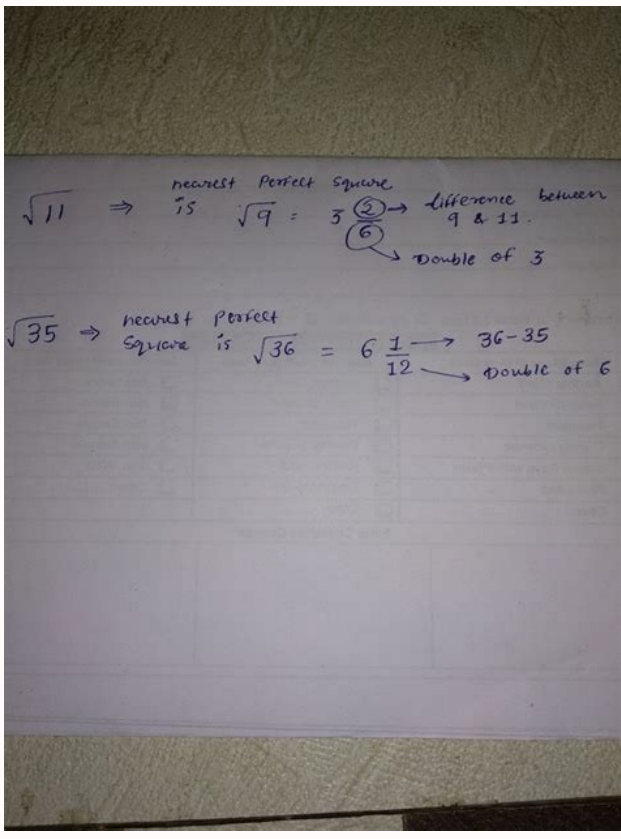
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$$120 = 2 \times 2 \times 2 \times 3 \times 5$$

$$\sqrt{120} = \sqrt{(2 \times 2 \times 2 \times 3 \times 5)}$$

$$= 2 \times \sqrt{2 \times 3 \times 5}$$

$$= 2\sqrt{30}$$

$\sqrt{27}$	=	$3\sqrt{3}$	$\sqrt{44}$ = $2\sqrt{11}$	
$\sqrt{28}$	=	$2\sqrt{7}$	$\sqrt{45}$ = $3\sqrt{5}$	
$\sqrt{32}$	=	$4\sqrt{2}$	$\sqrt{48}$ = $4\sqrt{3}$	
$\sqrt{36}$	=	6	$\sqrt{49}$ = 7	
$\sqrt{40}$	=	$2\sqrt{10}$	$\sqrt{50}$ = $5\sqrt{2}$	

$$\therefore \sqrt{11} = 3.3166 \text{ (Ans)}$$

Approximate $\sqrt{22}$

$$\sqrt{22}$$

$$\swarrow \qquad \searrow$$
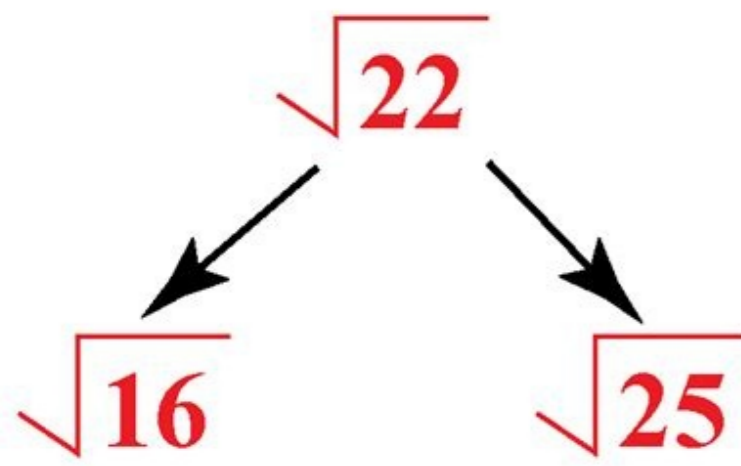
$$\sqrt{16} \qquad \sqrt{25}$$

$$\frac{22-16}{25-16} = \frac{6}{9}$$

$$\sqrt{22} = 4\frac{6}{9}$$

$$\boxed{\sqrt{22} = 4.6}$$

Please ensure that your password is at least 8 characters and contains each of the following: a number a letter a special character: @$#!%*?& Here we will define, analyze, simplify, and calculate the square root of 11. We start off with the definition and then answer some common questions about the square root of 11. Then, we will show you different ways of calculating the square root of 11 with and without a computer or calculator. We have a lot of information to share, so let's get started! Square root of 11 definition The square root of 11 in mathematical form is written with the radical sign like this √11. We call this the square root of 11 in radical form. The square root of 11 is a quantity (q) that when multiplied by itself will equal 11. √11 = q × q = q2 Is 11 a perfect square? 11 is a perfect square if the square root of 11 equals a whole number. As we have calculated further down on this page, the square root of 11 is not a whole number. 11 is not a perfect square. Is the square root of 11 rational or irrational? The square root of 11 is a rational number if 11 is a perfect square. It is an irrational number if it is not a perfect square. Since 11 is not a perfect square, it is an irrational number. This means that the answer to "the square root of 11?" will have an infinite number of decimals. The decimals will not terminate and you cannot make it into an exact fraction. √11 is an irrational number Can the square root of 11 be simplified? You can simplify 11 if you can make 11 inside the radical smaller. We call this process "to simplify a surd". The square root of 11 cannot be simplified. √11 is already in its simplest radical form. How to calculate the square root of 11 with a calculator The easiest and most boring way to calculate the square root of 11 is to use your calculator! Simply type in 11 followed by √x to get the answer. We did that with our calculator and got the following answer with 9 decimal numbers: √11 ≈ 3.316624790 How to calculate the square root of 11 with a computer If you are using a computer that has Excel or Numbers, then you can enter SQRT(11) in a cell to get the square root of 11. Below is the result we got with 13 decimals. We call this the square root of 11 in decimal form. SQRT(11) ≈ 3.3166247903554 What is the square root of 11 rounded? The square root of 11 rounded to the nearest tenth, means that you want one digit after the decimal point. The square root of 11 rounded to the nearest hundredth, means that you want two digits after the decimal point. The square root of 11 rounded to the nearest thousandth, means that you want three digits after the decimal point. 10th: √11 ≈ 3.3 100th: √11 ≈ 3.32 1000th: √11 ≈ 3.317 What is the square root of 11 as a fraction? Like we said above, since the square root of 11 is an irrational number, we cannot make it into an exact fraction. However, we can make it into an approximate fraction using the square root of 11 rounded to the nearest hundredth. √11 ≈ 3.32/1 ≈ 332/100 ≈ 3 8/25 What is the square root of 11 written with an exponent? All square roots can be converted to a number (base) with a fractional exponent. The square root of 11 is no exception. Here is the rule and the answer to "the square root of 11 converted to a base with an exponent?": √b = b½ √11 = 11½ How to find the square root of 11 by long division method Here we will show you how to calculate the square root of 11 using the long division method with one decimal place accuracy. This is the lost art of how they calculated the square root of 11 by hand before modern technology was invented. Step 1) Set up 11 in pairs of two digits from right to left and attach one set of 00 because we want one decimal: Step 2) Starting with the first set: the largest perfect square less than or equal to 11 is 9, and the square root of 9 is 3. Therefore, put 3 on top and 9 at the bottom like this: Step 3) Calculate 11 minus 9 and put the difference below. Then move down the next set of numbers. Step 4) Double the number in green on top: 3 × 2 = 6. Then, use 6 and the bottom number to make this problem: 6? × ? ≤ 200 The question marks are "blank" and the same "blank". With trial and error, we found the largest number "blank" can be is 3. Now, enter 3 on top: That's it! The answer is on top. The square root of 11 with one digit decimal accuracy is 3.3. Square Root of a Number Please enter another number in the box below to get the square root of the number and other detailed information like you got for 11 on this page. Notes Remember that negative times negative equals positive. Thus, the square root of 11 does not only have the positive answer that we have explained above, but also the negative counterpart. We often refer to perfect square roots on this page. You may want to use the list of perfect squares for reference. Square Root of 12 Here is the next number on our list that we have equally detailed square root information about. Copyright | Privacy Policy | Disclaimer | Contact The square root of 11 is expressed as √11 in the radical form and as (11)½ or (11)0.5 in the exponent form. The square root of 11 rounded up to 7 decimal places is 3.3166248. It is the positive solution of the equation x2 = 11. Square Root of 11: 3.3166247903554 Square Root of 11 in exponential form: (11)½ or (11)0.5 Square Root of 11 in radical form: √11 The square root is an inverse mathematical operation of a square. Let's take a look at the below example: This is a number which when multiplied to itself gives us the result as 11. The square root of 11 is represented as √11. The exponent form is expressed as 11½ . The square root of 11 rounded to 5 decimal places is + 3.31662 and - 3.31662. A rational number is a number that is of the form p/q where: p and q are integers q ≠ 0 A number that cannot be expressed as a ratio of two integers is an irrational number. Non-terminating decimals having repeated numbers after the decimal point are rational numbers. Now let us look at the square root of 11 Do you think the decimal part stops after 3.316624790367? Clearly No, this is non-terminating and the decimal part has no repeating pattern. So it is not a rational number. Thus, √11 is an irrational number. Square Root of 11 can be calculated using various methods: By simplifying the radical of the numbers that are perfect squares. By long division method for perfect and non-perfect squares 11 is a prime number and hence, it is not a perfect square. Therefore, the square root of 11 can only be found by the long division method. Simplified Radical Form of Square Root of 11 To simplify the square root of 11, let us first express 11 as a product of its prime factors. The prime factorization of 11 can be found as follows: Thus the prime factorization of 11 is: 1 × 11 To find the square root of any number, we take one number from each pair of the same numbers from its prime factorization and we multiply them. But the prime factorization of 11 is 11 × 11 which has no pairs of the same numbers. Therefore, √11 is in the lowest form and cannot be simplified further. Can you try and express the square root of 5 and the square root of 10 in a similar way? Square Root of 11 By Long Division The value of the square root of 11 by long division method consists of the following steps: Step 1: Starting from the right, we will pair up the digits by putting a bar above them. Step 2: Find a number such that when you multiply it with itself, the product is less than or equal to 11. So, the number is 3. Putting the divisor as 3, we get the quotient as 3 and the remainder 2 Step 3: Double the divisor and enter it with a blank on its right. Guess the largest possible digit to fill the blank which will also become the new digit in the quotient, such that when the new divisor is multiplied to the new quotient the product is less than or equal to the dividend. Divide and write the remainder. Repeat this process to get the decimal places you want. Hence, √11 = 3.3166 Explore Square roots using illustrations and interactive examples Can you think of any quadratic equation which has a root as √11? Is √-11 a real number? Since (-√11)2 = 11, can we say that -√11 is also a square root of 11? The real roots of √11 are ± 3.316. Irrational numbers cannot be expressed as a ratio of two integers. Example: π, √2. Example 1: Jim had a doubt. He knew that 3.316 is the square root of 11. He wanted to know if -3.316 is also a square root of 11? Can you clarify his doubt? Solution Let us take an example of a perfect square number and extend the same logic to clarify her doubt. We know that 4 is a square root of 16 because when 4 is multiplied to itself it gives 16 But what about -4? Let us multiply and check (-4) × (-4) = 16, (-) × (-) = + Therefore, -4 is also a ssquare root of 16. Going by the same logic, -3.316 is also a square root of 11. Example 2: John is baking a square cake for his friend's birthday party. He decides to give each guest a square piece of cake of side 1inch. There are 121 guests attending the party. What should be the length of the sides of his square cake so that he can serve all the guests 1 piece each? Solution Since there are 121 guests, the number of cake pieces should be 121. Since each piece of cake has to be 1 inch by 1 inch, the area of the square cake should be 121 sq. inches. Therefore, length of the sides of the cake = 121 = √11 Length of the sides of the square cake = 11 inches Example: If the area of a circle is 11π in2. Find the radius of the circle. Solution: Let 'r' be the radius of the circle. ⇒ Area of the circle = πr2 = 11π in2 ⇒ r = ±√11 in Since radius can't be negative, ⇒ r = √11 The square root of 11 is 3.317. ⇒ r = 3.317 in go to s[sic]dego to s[sic]dego to slide Breakdown tough concepts through simple visuals. Book a Free Trial Class The square root of 11 is 3.31662. Why is the Square Root of 11 an Irrational Number? The number 11 is prime. This implies that the number 11 is pairless and is not in the power of 2. Therefore, the radical form of square root of 11 cannot be simplified further. What is the Square Root of 11 in Simplest Radical Form? The number 11 is a prime number. This implies that the number 11 is pairless and is not in the power of 2. Therefore, the radical form of square root of 11 cannot be simplified further. What is the Square Root of -11? The square root of -11 is an imaginary number. It can be written as √-11 = √-1 × √11 = i √11 = 3.316i where i = √-1 and it is called the imaginary unit. If the Square Root of 11 is 3.317. Find the Value of the Square Root of 0.11. Let us represent √0.11 in p/q form i.e. √(11/100) = 0.11/10 = 0.332. Hence, the value of √0.11 = 0.332 What is the Value of 12 square root 11? The square root of 11 is 3.317. Therefore, 12 √11 = 12 × 3.317 = 39.799.

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