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## What is value in math

Math tutors / Knowledge Base / Value - Definition, Examples, Charts When we hear value, we think of the worth of something but what does value mean in math? And, what's the value of a number? The value meaning in math is the same as the original concept of worth. However, this worth refers to that of a number or mathematical expression. Here, we define value in math and explain how to find the value of a number through examples and practice problems. What is Value? Value is the significance, worth, or utility of something. Value in math definition Value definition in math is the worth of an expression, symbol, or number. This is its numerical quantity and it may be derived through calculation. For instance, if  $X = 2 + 4$ , then the value of X is 6. How to find the value Calculation may reveal the value of numbers, mathematical expressions, and problems, especially when they are unknown. However, at times the value in math can be arrived at by observation. For instance, in the number 5,246, the value of 4 is 40. Another helpful way to find the value is by multiplying the face value by the place value. Place Value Place value is the value of a digit as determined by its position in a number. In our previous example of 5,246, the place value of 5 is thousands, 2 is hundreds, 4 is tens, and 6 is ones. Face Value The face value of a digit is what the digit is, regardless of its position in a number. The face value of 5 in 5,246 is 5. Value In a number, a digit's value is the digit's worth in that number. The worth of 6 in 623 is 600. The number value applies even when there is more than one of the same digit in a number. For instance, in 5,453, the value of the first 5 is 5,000 and the second 5 is 50. Remember that you can multiply the face value by the place value to know the value of a digit. View pdf Place Value Worksheet View pdf Place Value Practice Value Table A value table is a structured arrangement of numbers by putting each digit in a column and the place value, face value, and value are arranged in other columns. This way we can find the value of each digit by tracing the rows they fall into. For instance, if we want to know what value does each digit represent in the number 9,653,822, here's how it would look: Digit Place value Face value Value 9 Millions (1,000,000) 9 Nine million (9,000,000) 6 Hundred thousands (100,000) 6 Six hundred thousand (600,000) 5 Ten thousands (10,000) 5 Fifty thousand (50,000) 3 Thousands (1,000) 3 Three thousand (3,000) 8 Hundreds (100) 8 Eight hundred (800) 2 Tens (10) 2 Twenty (20) 2 Ones (1) 2 Two (2) Examples on Value With the table given, we can find the value, place value, and face value of digits in numbers by substituting the figures for any number given. Let's look at the value math example below: What is the value of each number in 6,783? Digit Place value Face value Value 6 Thousands (1,000) 6 Six thousand (6,000) 7 Hundreds (100) 7 Seven hundred (700) 8 Tens (10) 8 Eighty (80) 3 Ones (1) 3 Three (3) Now, we can identify the face value, place value, and value of each digit in the number. Practice Questions on Value Solved math problem 1 What is the value of 6 in the number 4,363? Solution The value of 6 in 4,363 is 60 (sixty). We can determine this by multiplying the face value (6) by its place value (10 or tens).  $6 \times 10 = 60$  Solved math problem 2 What is the value of 4 in 9,321,644? Solution Again, when we multiply their place values by their face values, we can get their values.  $4 \times 10 = 40$   $4 \times 1 = 4$  The value of the first 4 is 40 and the second 4 is 4. Value: practice math problems Frequently Asked Questions on Value What is the difference between place value and face value? Place value is the value of a digit in a number as determined by its position while face value is what the digit is ordinarily. For 36, the place value of 3 is tens and the face value is 3. How is value used in mathematics? Value is used in mathematics to know the worth of a symbol, digit, or expression. What is a value table? A value table is a structured arrangement of numbers by putting each digit in a column and the place value, face value, and value are arranged in other columns. Poor Level Weak math proficiency can lead to academic struggles, limited college, and career options, and diminished self-confidence. Mediocre Level Weak math proficiency can lead to academic struggles, limited college, and career options, and diminished self-confidence. Needs Improvement Start practicing math regularly to avoid your child's math scores dropping to C or even D. High Potential It's important to continue building math proficiency to make sure your child outperforms peers at school. Camille Ira B. Mendoza 33 articles Let us consider a 7 digit number: 7,456,391 Here, place value of 6: thousands or 1000s face value of 6: 6 or six value of 6: 6000 or six thousand Place value refers to the value of the column in which the number is. Each column in a number holds a different place value. For instance: If we consider a number 45. Here the digit 4 is in the tens column. Hence, the place value of the digit 4 is tens or 10s. The face value of the digit 4 is 4 or four. The value refers to the worth of each digit depending on where it lies in the number. We calculate it by multiplying the place value and face value of the digit. Value = Place Value  $\times$  Face Value For instance: If we consider the number 45. Here digit 4 is in the tens column. Hence, the value of the digit 4 will be 40 or forty. Let us consider the number 7,456,391.23 The place value, value and face value of all the digits are given below: DigitsPlace ValueValueFace Value7millions or 1000000s7,000,000 74hundred thousands or 100000s400,00045ten thousands or 10000s50,00056thousands or 1000s6,00063hundreds or 100s30039tens or 10s9091ones or 1s112tenths or 0.1s0.223hundredths or 0.01s0.33 Example 1: Work out the place value, face value and value of 6 in the number 56,523.22. Solution: Putting this number in the place value chart, we get Hence, Place Value of 6: thousands or 1000s Face Value of 6: 6 or six Value of 6:  $6 \times 1000 = 6000$  or six thousand Fun Facts- The place value numeration system has been derived from the Hindu Numeral System. Mathematics: a number, or the result of a calculation. Example:  $3 \times 4$  gives the value of 12. Money: how much something is worth. Example: the value of this coin is one dollar. Let us consider a 7 digit number: 7,456,391 Here, place value of 6: thousands or 1000s face value of 6: 6 or six value of 6: 6000 or six thousand Place value refers to the value of the column in which the number is. Each column in a number holds a different place value. For instance: If we consider a number 45. Here the digit 4 is in the tens column. Hence, the place value of the digit 4 is tens or 10s. The face value of a digit is the same digit, irrespective of the column in which the digit is. For instance: If we consider a number 45. Here the digit 4 is in the tens column. Hence, the face value of the digit 4 will be 4 or four. The value refers to the worth of each digit depending on where it lies in the number. We calculate it by multiplying the place value and face value of the digit. Value = Place Value  $\times$  Face Value For instance: If we consider the number 45. Here digit 4 is in the tens column. Hence, the value of the digit 4 will be i.e. 40 or forty. 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