

Understanding the Decimal 0.62

In this guide, we will break down the decimal number **0.62**, explaining its meaning, how to convert it to other forms, and where it is commonly used.

Step 1: What is 0.62?

The number **0.62** is a decimal number. Decimals are numbers that consist of a whole number and a fractional part, separated by a decimal point. In this case, the **0** represents zero whole units, and the **62** after the decimal point represents the fraction of a whole.

Step 2: Understanding the Value

The digit **6** is in the tenths place, which means it is equivalent to $6/10$. The digit **2** is in the hundredths place, meaning it is equivalent to $2/100$. Therefore, we can express **0.62** as:

- $0.62 = 6/10 + 2/100$

Upon simplifying, we can combine these fractions, but it is often simpler to work with the decimal directly.

Step 3: Converting 0.62 to a Fraction

To convert **0.62** to a fraction:

1. Write it as **62/100** (since there are two digits after the decimal point).
2. Simplify **62/100** by finding the greatest common divisor (GCD). The GCD of 62 and 100 is 2.
3. Divide both the numerator and the denominator by their GCD: $62 \div 2 = 31$ and $100 \div 2 = 50$.
4. Thus, **0.62 = 31/50**.

Step 4: Converting 0.62 to a Percentage

To convert **0.62** into a percentage:

1. Multiply the decimal by 100.
2. $0.62 \times 100 = 62$.
3. Add the percentage symbol (%): **0.62 = 62%**.

Step 5: Applications of 0.62

The number **0.62** can be used in various contexts, such as:

- Shopping: If an item costs \$0.62, you can think of it as less than a dollar.
- Statistics: In surveys or data analysis, percentages often are represented as decimals.
- Finance: Interest rates might be expressed in decimal form.

Conclusion

Understanding the decimal **0.62** involves knowing its value, being able to convert it to a fraction and

percentage, and recognizing where you might encounter such decimal numbers in everyday life. Hopefully, this step-by-step explanation has clarified what **0.62** is and how to work with it!