To write 84 7/10 as a decimal number, we need to understand what each part represents. In this mixed number, 84 is the whole number part, and 7/10 is the fraction part. To convert the fraction 7/10 to a decimal, we divide the numerator (7) by the denominator (10). When we divide 7 by 10, we get 0.7.

Therefore, the decimal representation of 84 7/10 is 84.7. To see this visually, think of the whole number as dollars and the fraction as cents. So, 84 is like having 84 dollars, and adding 7/10 is like having 7 cents more, totaling 84.7.

Another way to visualize this is by considering a decimal as a way to express parts of a whole. In 84 7/10, the whole number 84 represents the complete part, and the fraction 7/10 represents the additional part. Combining these two parts gives us the decimal representation, 84.7.

By converting mixed numbers like 84 7/10 to decimals, we make it easier to work with them in mathematical operations and comparisons. Decimals provide a precise way to represent numbers, especially when dealing with fractions in everyday situations.

So, the decimal form of 84 7/10 is 84.7, which shows the whole number and the additional fractional part in a simplified, easy-to-understand way.