

To convert the decimal number 9.45 into a mixed number, follow these steps:

1. **Identify the whole number:** The number before the decimal point (9) is the whole number.
2. **Convert the decimal to a fraction:** Take the decimal part (0.45) and convert it into a fraction. Since 0.45 is equal to $\frac{45}{100}$, we simplify this fraction. To do this, find the greatest common divisor (GCD) of 45 and 100, which is 5.
3. **Simplify the fraction:** Divide both the numerator and the denominator by 5:
 - $45 \div 5 = 9$
 - $100 \div 5 = 20$
4. This simplifies 0.45 to $\frac{9}{20}$.
5. **Combine the whole number and the fraction:** Now combine the whole number (9) with the simplified fraction ($\frac{9}{20}$). Therefore, the mixed number is:

9 $\frac{9}{20}$

Thus, 9.45 as a mixed number is **9 $\frac{9}{20}$** .