

To convert the decimal 0.09 into a fraction, follow these steps:

1. **Understand the Decimal Place:** The decimal 0.09 has two digits after the decimal point (the '0' and the '9'). This means it is in the hundredths place.
2. **Write as a Fraction:** You can express 0.09 as a fraction with 9 in the numerator (the top number) and 100 in the denominator (the bottom number) because 0.09 means 9 hundredths. So, we write it as:

$$0.09 = 9/100$$

3. **Simplify the Fraction (if necessary):** To see if the fraction can be simplified, find the greatest common divisor (GCD) of 9 and 100. The GCD is 1 since 9 and 100 have no common factors other than 1. Therefore, 9/100 is already in its simplest form.
4. **Final Result:** The decimal 0.09 as a simplified fraction is:

$$9/100$$

So, 0.09 written as a fraction is **9/100**.