

To convert the mixed number **$10 \frac{5}{9}$** into a decimal, follow these steps:

1. **Understand the Mixed Number:** The mixed number consists of two parts: the whole number (10) and the fraction ($\frac{5}{9}$).
2. **Convert the Fraction to Decimal:** First, we need to convert the fraction ($\frac{5}{9}$) into a decimal. To do this, divide 5 by 9:
 - $5 \div 9 = 0.5555\dots$ (the 5s continue indefinitely)
3. **Add the Whole Number:** Now that we have the decimal for the fraction, we can add this to the whole number:
 - $10 + 0.5555\dots = 10.5555\dots$
4. **Write the Final Answer:** Therefore, the decimal form of the mixed number $10 \frac{5}{9}$ is:
 - **$10.5555\dots$** , which can also be rounded as needed (for example, 10.56 if rounding to two decimal places).

In conclusion, $10 \frac{5}{9}$ as a decimal is approximately **$10.5555\dots$** .