

To convert the mixed number **$2 \frac{13}{16}$** into a decimal, follow these steps:

1. **Understand the mixed number:** A mixed number consists of a whole number and a fraction. Here, **2** is the whole number and **$\frac{13}{16}$** is the fractional part.
2. **Convert the fraction to a decimal:** To convert **$\frac{13}{16}$** to decimal, you divide the numerator (13) by the denominator (16).
3. **Perform the division:**
 $13 \div 16 = 0.8125$
4. **Add the decimal to the whole number:** Now add the decimal value obtained from the fraction to the whole number part (2).
 $2 + 0.8125 = 2.8125$
5. **Final answer:** Therefore, the decimal equivalent of **$2 \frac{13}{16}$** is **2.8125**.

In conclusion, **$2 \frac{13}{16}$** as a decimal is **2.8125**.