

To convert the decimal 6.85 into a mixed number, follow these steps:

1. **Identify the whole number part:** The whole number part of 6.85 is 6.
2. **Identify the decimal part:** The decimal part is 0.85.
3. **Convert the decimal part to a fraction:** 0.85 can be rewritten as:
 - $85/100$ (because 0.85 means 85 hundredths).
4. **Simplify the fraction:** Both 85 and 100 can be divided by 5:
 - $85 \div 5 = 17$
 - $100 \div 5 = 20$
5. So, $0.85 = \mathbf{17/20}$.
6. **Combine the whole number and the fraction:** The mixed number is:
 - $6 \mathbf{17/20}$.

Thus, the mixed number representation of 6.85 is $\mathbf{6 \ 17/20}$.