Converting Mixed Numbers to Improper Fractions

$5\frac{6}{8}$

1. Multiply the whole number by the denominator of the fraction.

$5\frac{6}{8}$ $\quad 5 \times 8 = 40$

2. Add the product to the numerator of the fraction.

$5\frac{6}{8}$ $\quad 40 + 6 = 46$

3. The numerator of the new improper fraction is the sum from Step 2.

46 = numerator for new fraction

4. The denominator of the new improper fraction is the denominator of the original fraction.

8 = denominator

$\frac{46}{8}$ = new improper fraction

Converting Improper Fractions to Mixed Numbers

$\frac{46}{8}$

1. Turn the fraction into a division problem (Numerator ÷ Denominator)

$\frac{46}{8} = 8\overline{)46}$

2. Divide. Write the remainder as a fraction.

$$\begin{array}{r} 5 \\ 8\overline{)46} \\ -40 \\ \hline 6 \end{array}$$

$= 5\frac{6}{8}$