

M8 - 6.3 - Mixed Numbers Improper Fractions Notes

Mixed fraction

Fraction

$$2\frac{3}{5} \longleftrightarrow \frac{13}{5}$$

Mixed fraction \longrightarrow Fraction

$$\begin{aligned} 2\frac{3}{5} &= \frac{\text{bottom} \times \text{left} + \text{top}}{\text{bottom}} \\ &= \frac{5 \times 2 + 3}{5} \\ &= \frac{13}{5} \end{aligned}$$

Fraction \longrightarrow Mixed fraction

$$\frac{13}{5} = 2\frac{3}{5}$$

Diagram illustrating the conversion of the fraction $\frac{13}{5}$ to the mixed number $2\frac{3}{5}$:

- The fraction $\frac{13}{5}$ is shown.
- An arrow points from the denominator (5) to the remainder (3) in the mixed number, labeled "Bottom goes into top".
- Red arrows point from the words "remainder" and "bottom" to their respective parts in the mixed number.
- Calculation steps:
 - $5 \times 2 = 10$
 - $13 - 10 = 3$
 - $\text{remainder} = 3$