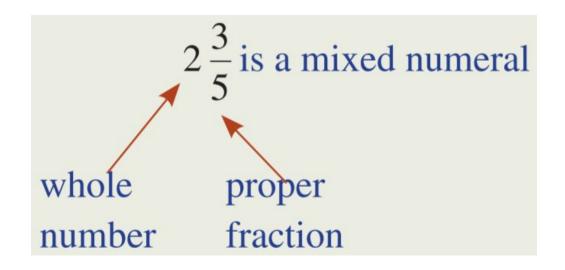
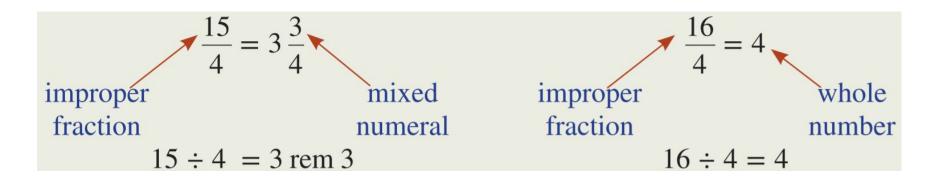
A number is said to be a mixed numeral when it is a mix of a whole number plus a proper fraction.



Improper fractions (fractions greater than a whole, where the numerator is greater than the denominator) can be converted to mixed numerals or whole numbers.



Mixed numerals can be converted to improper fractions.

# **Example 12** Converting mixed numerals to improper fractions

Convert  $3\frac{1}{5}$  to an improper fraction.

## SOLUTION

$$3\frac{1}{5} = 1 + 1 + 1 + \frac{1}{5}$$

$$= \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{1}{5}$$

$$= \frac{16}{5}$$

or

#### **EXPLANATION**

## **Example 14** Writing mixed numerals in simplest form

Convert  $\frac{20}{6}$  to a mixed numeral in simplest form.

### SOLUTION

# $\frac{20}{6} = 3\frac{2}{6} = 3\frac{1 \times 2}{3 \times 2} = 3\frac{1}{3}$

or

$$\frac{20}{6} = \frac{10 \times 2}{3 \times 2} = \frac{10}{3} = 3\frac{1}{3}$$

#### **EXPLANATION**

Method 1: Convert to a mixed numeral and then simplify the fraction part.

Method 2: Simplify the improper fraction first and then convert to a mixed numeral.