

Chapter 4 section 5
Multiply, Divided Mixed Fractions

Proper fraction: fraction whose numerator is smaller than its denominator.

Improper fraction: fraction whose numerator is larger than its denominator:

Identify the proper and improper fraction

$$\frac{2}{3}$$

$$\frac{4}{3}$$

$$-\frac{23}{39}$$

$$-\frac{233}{103}$$

Mixed Fraction: Whole number and fraction

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

$$5+\frac{2}{3}$$

Change Mixed Fraction to Improper Fraction

$$4\frac{7}{8}$$

$$4+\frac{7}{8}$$

$$\frac{4 \cdot 8}{8} + \frac{7}{8}$$

$$\frac{4 \cdot 8 + 7}{8}$$

$$\frac{39}{8}$$

Quick way
Multiply

Change to improper fraction

$$4\frac{3}{4}$$

$$-2\frac{3}{5}$$

Change Improper Fraction to Mixed Fraction

$$\frac{27}{5}$$

$$\frac{25}{5} + \frac{2}{5}$$

$$5 + \frac{2}{5}$$

$$5\frac{2}{5}$$

Sum must be whole number and second fraction is proper.

Quick Way

Divide the numerator by the denominator. Quotient will be the whole number part.

$$\frac{37}{8}$$

$$8\overline{)37}$$

Change to a mixed number

$$-\frac{43}{5}$$

$$\frac{35}{6}$$

Multiply, Divide Mixed Fractions

Change all mixed fractions to improper fraction the

$$-2\frac{1}{12} \cdot 2\frac{4}{5}$$

$$4\frac{4}{5} \div 5\frac{3}{5}$$

$$-2\frac{4}{9} \cdot 3\frac{2}{3}$$

$$\left(-1\frac{1}{6}\right) \div \left(1\frac{1}{8}\right)$$