

Fraction Operations

REFERENCE SHEET

Fraction Operations Reference Sheet

Adding and Subtracting Fractions

With a Common Denominator

1. Add or Subtract the numerators.
2. Keep the common denominator.
3. Reduce to simplest form.

Example

$$\frac{1}{2} + \frac{2}{5} = \frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$

$$\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$$

Without a Common Denominator

1. Identify the least common denominator (LCD) and rewrite equivalent fractions using the new denominator.
2. Add or Subtract the numerators.
3. Keep the common denominator.
4. Reduce to simplest form if needed.

Example

$$\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$

Multiplying Fractions

1. Multiply numerators with numerators.
2. Multiply denominators with denominators.
3. Reduce to simplest form if needed.

Example

$$\frac{1}{2} \times \frac{3}{4} = \frac{1 \times 3}{2 \times 4} = \frac{3}{8}$$

Dividing Fractions

1. Invert the denominator of the second fraction.
2. Multiply the numerators and denominators.
3. Reduce to simplest form if needed.

Example

$$\frac{1}{2} \div \frac{3}{4} = \frac{1}{2} \times \frac{4}{3} = \frac{4}{6} = \frac{2}{3}$$

Vocabulary

Mixed Number
A number that is a whole number and a proper fraction.

Improper Fraction
A fraction with a numerator that is greater than the denominator.

Between Mixed Numbers and Improper Fractions

Improper Fraction

Example

$$2 \frac{3}{5} = \frac{(2 \times 5) + 3}{5} = \frac{17}{5}$$

Improper Fraction → Mixed Number

1. Divide the numerator by the denominator.
2. The answer becomes the whole number.
3. The remainder becomes the numerator.
4. Keep the original denominator.

Example

$$\frac{22}{7} = 3 \frac{1}{7}$$

Dividing Mixed Numbers

1. Convert both numbers to improper fractions.
2. Keep the 1st fraction the same.
3. Invert the denominator of the 2nd fraction.
4. Multiply the fractions.
5. Reduce and convert back to a mixed number if needed.

Example

$$2 \frac{1}{2} \div 1 \frac{3}{4} = \frac{5}{2} \div \frac{7}{4} = \frac{5}{2} \times \frac{4}{7} = \frac{20}{14} = 1 \frac{6}{14} = 1 \frac{3}{7}$$

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Joacim Rocklöv



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