

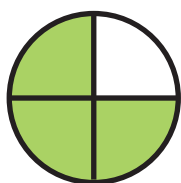
Converting Between Fraction Forms

Fraction Notation \longrightarrow Visual Representation

Visual representations can take many forms, such as portions of a circle or divisions of a line. However, the most efficient way to represent fractions visually is to use pieces of a block, especially for large fractions.

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

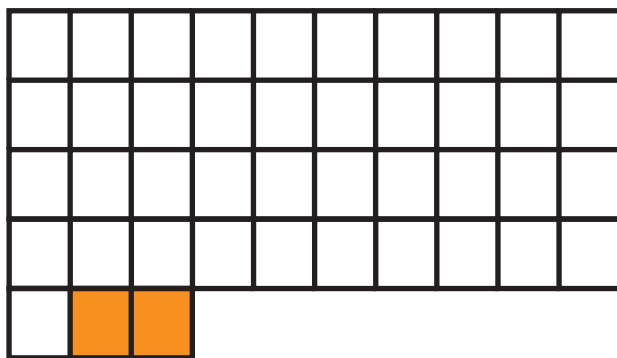
three-fourths



Most Efficient

$$\frac{2}{43}$$

two-forty-thirds



Most Efficient

Converting Between Fraction Forms

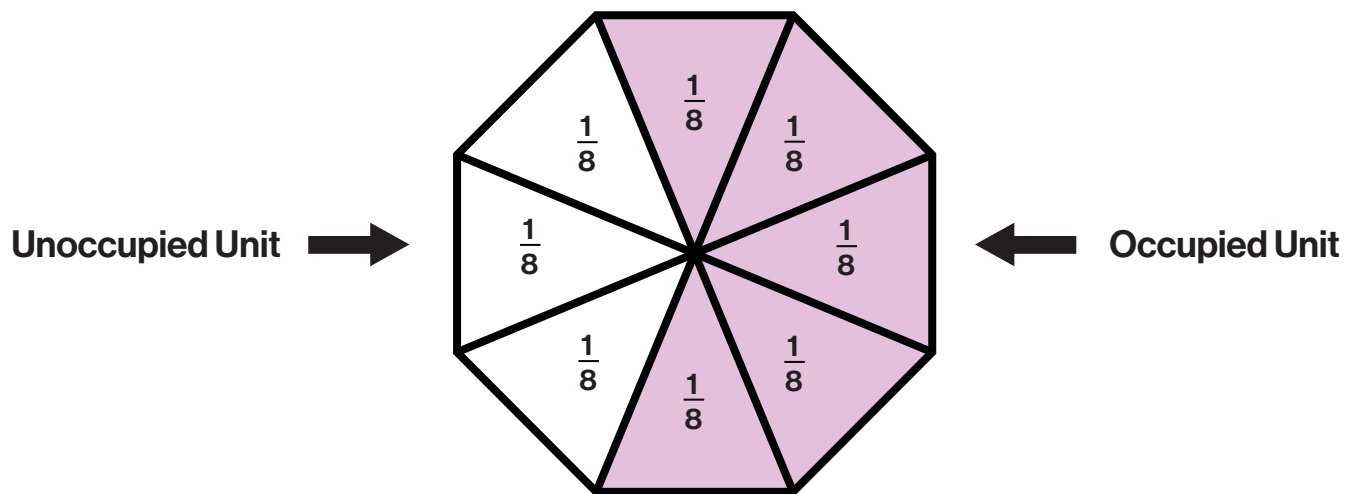
Fraction Notation \longrightarrow Visual Representation

Fractions

Units: Individual portions of a visual representation

Occupied Units: The shaded units

Unoccupied Units: The unshaded units



$$\frac{5}{8}$$

\longleftarrow Total Number of Occupied Units

\longleftarrow Total Number of Units

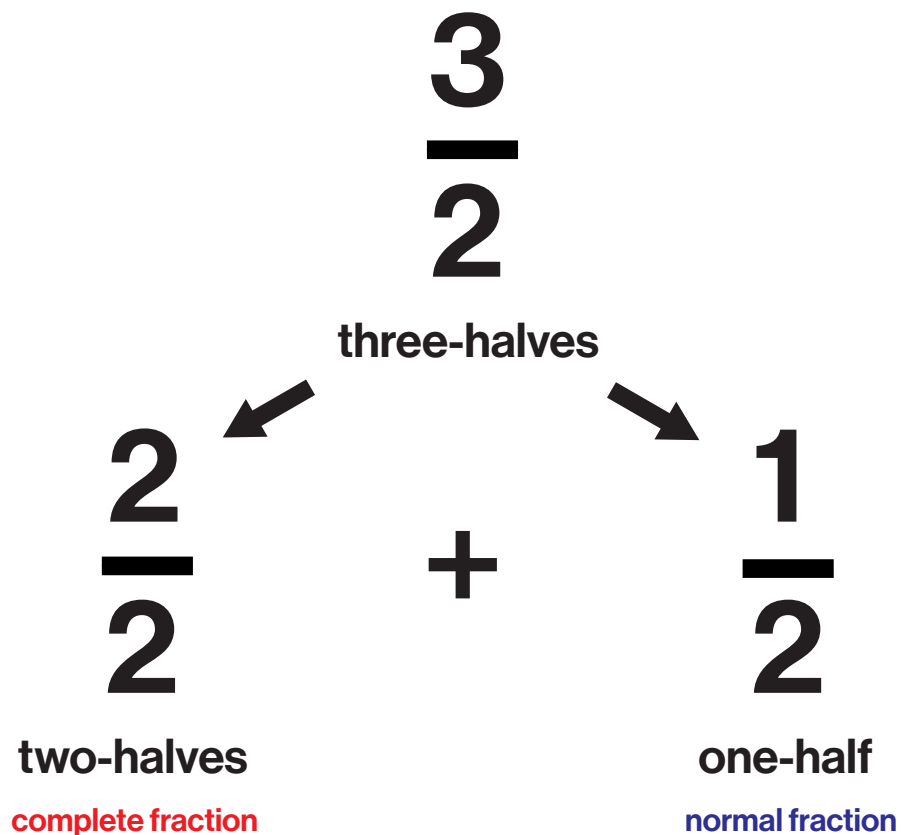
five-eighths

Converting Between Fraction Forms

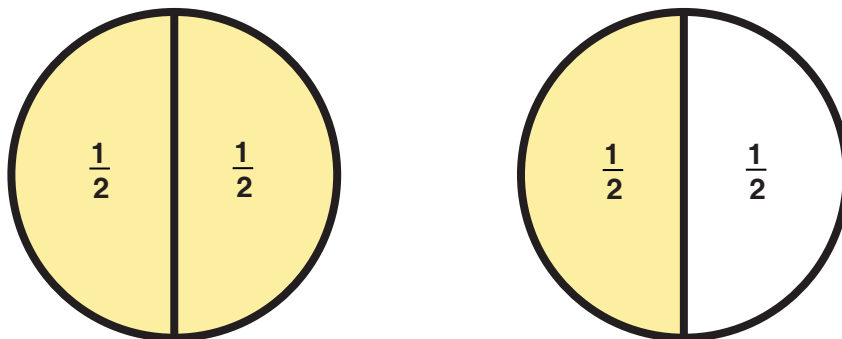
Fraction Notation \longrightarrow Visual Representation

Improper Fractions

To represent improper fractions, you must break the improper fraction down into **complete fractions** until a **normal fraction** is produced.



Then, each **complete fraction** and **normal fraction** can be represented.



Converting Between Fraction Forms

Fraction Notation \longrightarrow Visual Representation

Improper Fractions

To represent improper fractions, you must break the improper fraction down into **complete fractions** until a **normal fraction** is produced.

$$\frac{20}{7}$$

twenty-sevenths



$$\frac{7}{7}$$

+



$$\frac{7}{7}$$

+



$$\frac{6}{7}$$

seven-sevenths

complete fraction

seven-sevenths

complete fraction

six-sevenths

normal fraction

Then, each **complete fraction** and **normal fraction** can be represented.



$$1 \text{ Unit} = \frac{1}{7}$$

Converting Between Fraction Forms

Fraction Notation \longrightarrow Visual Representation

Complete Fractions

Units: Individual portions of a visual representation

Occupied Units: The shaded units

Unoccupied Units: The unshaded units

Complete fractions are shown by only using occupied units.

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

\longleftarrow Total Number of Occupied Units

\longleftarrow Total Number of Units

six-sixths

