

How to Convert between Improper Fractions and Mixed Numbers

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

Why is it important?

Simplify

↳ mixed number
is simplest form

Operations (+, -, ×, ÷)

↳ Convert to improper
fractions

$$1\frac{2}{5}$$

Converting Mixed Numbers into Improper Fractions

Terminology

Sum: answer when adding

Product: answer when multiplying

Numerator: top # of fraction

Denominator: bottom # of fraction

1. Multiply the denominator by the whole number

$$1 \frac{2}{5} = \frac{7}{5}$$

2. Add the **PRODUCT**

to the numerator

3. This **SUM**

is the new

numerator

4. Keep the denominator

from the original fraction.

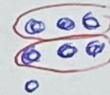
$$2 \frac{8}{3}$$

$$1 \frac{5}{2}$$

Converting Improper Fractions into Mixed Numbers

1. Divide the numerator by the denominator

This will be the new whole number



$$\frac{7}{3} = 2 \frac{1}{3}$$

2. Multiply the new whole number

and the

denominator

3. Subtract the **PRODUCT** from step 2 from

the old numerator

This is the new numerator

4. Keep the denominator

from the original fraction.

$$\frac{15}{2}$$

$$\frac{78}{7}$$

