

Adding and Subtracting Fractions (Day 1)

Converting Mixed Numbers into Improper Fractions

- multiply the denominator by the whole number and add the numerator
- the denominator stays the same

Practice: $6\frac{3}{4}$

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

Adding/Subtracting Fractions with a Common Denominator

- add/subtract the numerators
- keep the common denominator

Practice: $\frac{8}{11} - \frac{5}{11}$

$$\frac{3}{7} + \frac{2}{7} = \frac{3+2}{7} = \frac{5}{7}$$

Adding/Subtracting Mixed Numbers with a Common Denominator

- convert into improper fractions
- add/subtract the numerators
- keep the common denominator

Practice: $2\frac{3}{8} - 1\frac{5}{8}$

$$5\frac{1}{4} - 2\frac{3}{4}$$

$$\frac{21}{4} - \frac{11}{4} = \frac{10}{4}$$

Adding/Subtracting without a Common Denominator

- list the multiples of all denominators and find the Least Common Multiple (LCM)
- Rewrite all fractions in an equivalent form with the LCM
- add/subtract as normal

$$\frac{2}{3} + \frac{1}{5}$$

Multiples of 3:

LCM =

Multiples of 5:

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

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

Adding/Subtracting without a Common Denominator

$$\frac{5}{6} + \frac{1}{5}$$

$$\frac{1}{2} - \frac{1}{3}$$

Notes - Adding and Subtracting Fractions (Day 1).notebook

Adding/Subtracting Fractions
Practice

$$2\frac{1}{4} + 5\frac{2}{7}$$

$$5\frac{1}{5} - 2\frac{1}{6}$$

Adding/Subtracting Fractions
Practice

$$2\frac{1}{4} - 5\frac{2}{7}$$

$$\frac{2}{7} + \frac{3}{8}$$

Adding/Subtracting Fractions
Practice

$$-3\frac{1}{8} - 5\frac{2}{5}$$

$$-\frac{1}{4} - (-\frac{1}{3})$$