Adding / Subtracting fractions:

- Convert all <u>mixed numbers</u> into full factions

$$\frac{ex:}{5 \frac{7}{8}} = \frac{4047:8}{9} = \frac{47}{8}$$

$$-6 \frac{1}{4} = \frac{3441-35}{4} = \frac{109}{5}$$

$$31 \frac{4}{5} = \frac{109}{5}$$

- Adding or subtracting fractions requires a common denominator

$$\frac{4}{5} + \frac{7}{5} = \frac{11}{15}$$

$$\frac{2}{3} + \frac{6}{9} = \frac{7}{15}$$

$$\frac{2}{3} + \frac{7}{9} = \frac{7}{15}$$

$$\frac{2}{3} + \frac{7}{9} = \frac{7}{15}$$

Practice:

$$\frac{3}{55} \cdot -\frac{2}{3} + \frac{4}{5} = -\frac{10}{15} + \frac{12}{15} = \frac{2}{15}$$

$$\frac{3}{3} \cdot \frac{3}{5} \cdot \frac{4}{12} - \frac{6}{14}$$

$$\frac{12}{12} \cdot \frac{4}{12} - \frac{6}{14} = \frac{285}{84} - \frac{36}{84} = \frac{349}{84}$$

$$\frac{55}{12} - \frac{6}{14} = \frac{285}{84} - \frac{36}{84} = \frac{349}{84}$$

$$\frac{7}{84} \cdot -\frac{3}{4} + \frac{7}{5} \cdot \frac{5}{6}$$

$$\frac{7}{4} \cdot \frac{3}{4} \cdot \frac{2}{12} = \frac{55}{12}$$

Multiplication rules:

Multiply two #'s with same sign, the answer is positive

multiply two #'s with opposite signs, the answer is negative

$$-101 \times 4 = -404$$

· Multiply # by I = same number

multiply # by - | = opposite (inverse), reverse the sign.

$$5 \times -1 = -5$$

-322.146 \times -1 = 322.146

Homework:

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p. 77; 18,22,43,54
p. 82; 12,14,32,34,45
p. 91; 3-15 (every 3<sup>rd</sup>),44
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