

Commutative Property (of + and x)	$a + b = b + a$ $c \cdot d = d \cdot c$	
Associative Property (of + and x)	$(a + b) + c = a + (b + c)$ $(c \cdot d) \cdot e = c \cdot (d \cdot e)$	
Identity Property of addition	$x + 0 = x$	
Identity Property of Multiplication	$x \cdot 1 = x$	

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Adding and Subtracting Like Fractions

like fractions - the fractions already have a common denominator

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Steps

- add or subtract the numerators (when needed, change addition to ADDING THE OPPOSITE)
- keep the same denominator
- simplify if needed

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**Always attach negative sign to the numerator!

$$\frac{5}{9} + \frac{7}{9}$$

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

$$\frac{3}{8} + \frac{5}{8}$$

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Adding Mixed Numbers

$$2\frac{5}{8} + 6\frac{1}{8}$$

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$$2\frac{3}{7} + 1\frac{5}{7}$$

$$8\frac{1}{4} + 4\frac{2}{4}$$

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Subtracting Mixed Numbers

****rewrite vertically!**

Example: $3\frac{5}{8} - 1\frac{1}{8}$

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Subtracting with regrouping: Rewrite vertically

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

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$$5\frac{2}{9} - 2\frac{4}{9}$$

$$8\frac{1}{5} - 4\frac{2}{5}$$

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Adding and Subtracting Unlike Fractions

unlike fractions - fractions that do not have a common denominator

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Try to use the least common multiple as the common denominator.

First look to see if the smaller # fits in the bigger #.

When stuck - multiply the denominators

Examples:

$$\frac{5}{12} + \frac{1}{6}$$

$$\frac{5}{8} + \frac{3}{20}$$

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

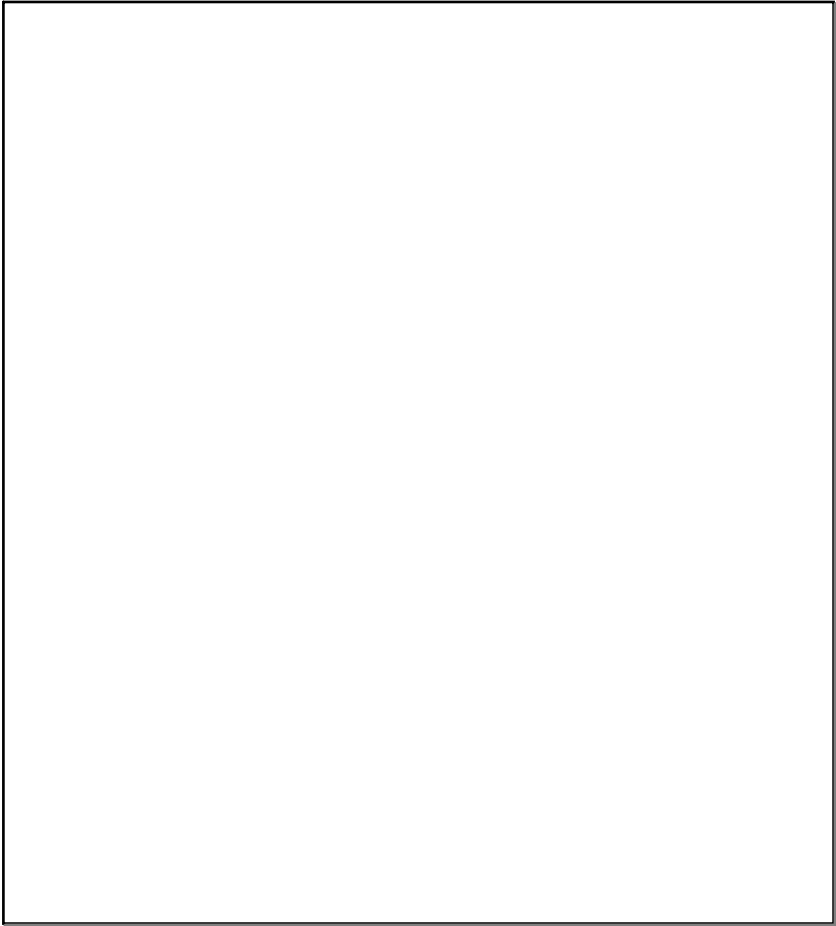
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$$\frac{5}{9} + \frac{1}{6}$$

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

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