

2-Add/Subtract Fractions

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I CAN APPLY STRATEGIES TO ADD AND SUBTRACT FRACTIONS

- Recall: LCM and common denominator
- When adding or subtracting fractions with 'like' denominators we add the numerator but leave the denominator.

EXAMPLE:

a) $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$

b) $\frac{2}{10} + \frac{7}{10} = \frac{9}{10}$

c) $\frac{12}{13} + \frac{3}{13} = \frac{15}{13} = 1\frac{2}{13}$

d) $\frac{-3}{4} + \frac{5}{4} = \frac{2}{4} = \frac{1}{2}$

e) $\frac{4}{7} - \frac{3}{7} = \frac{1}{7}$

f) $\frac{2}{7} + (-\frac{9}{7}) = -\frac{7}{7} = -1$

- Adding or subtracting fractions with different denominators.
 - If the denominators are different, find the lowest common denominator (LCD)
 - Multiply both the numerator and denominator by a number that will result in the LCD (multiply top and bottom)
 - ADD/SUBTRACT the numerators
 - Keep the denominator
 - Reduce if possible.

EXAMPLE:

LCD = 20

$$\frac{1 \cdot 7}{5 \cdot 4} - \frac{8 \cdot 4}{5 \cdot 4}$$

$$= \frac{35}{20} - \frac{32}{20}$$

$$= \frac{3}{20}$$

LCD = 14

$$\frac{7 \cdot 3}{5 \cdot 2} - \frac{9 \cdot 2}{7 \cdot 2}$$

$$= \frac{21}{14} - \frac{18}{14}$$

$$= \frac{3}{14}$$

LCD = 15

$$\frac{5 \cdot 4}{6 \cdot 3} - \frac{2 \cdot 3}{5 \cdot 3}$$

$$= \frac{20}{15} - \frac{6}{15}$$

$$= \frac{14}{15}$$

LCD = 4

$$\frac{2 \cdot 23}{2 \cdot 2} + \frac{9}{4}$$

$$= \frac{46}{4} + \frac{9}{4}$$

$$= \frac{55}{4}$$

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

6. $\frac{7}{10} + \frac{2}{5}$

$$= \frac{7}{10} + \frac{4}{10}$$

$$= \frac{11}{10} = 1\frac{1}{10}$$

LCD = 6

$$\frac{3 \cdot 5}{10 \cdot 2} + \frac{2 \cdot 2}{3 \cdot 2}$$

$$= \frac{15}{6} + \frac{4}{6}$$

$$= \frac{19}{6} = 3\frac{1}{6}$$

A

B

C

D

E

F

G

H

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J

K

L