

Steps for Adding and Subtracting Fractions

1. Common denominator (HINT: LCM)
2. add or subtract the numerators: from left \rightarrow right.
Keep the common denominator.
3. Simplify, reduce, lowest terms.

Add and Subtract Fractions

*Show neat, organized work for every problem!

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

$$\frac{-4-2}{7} = \frac{-6}{7}$$

$$2) \frac{1}{10} - (-\frac{3}{10})$$

$$\frac{1-(-3)}{10} = \frac{4}{10} = \frac{2}{5}$$

$$3) \frac{5}{12} + \frac{1}{3}$$

$$\frac{5}{12} + \frac{4}{12} = \frac{9}{12} = \frac{3}{4}$$

$$4) -\frac{5}{6} - \frac{7}{9}$$

$$-\frac{15}{18} - \frac{14}{18} = \frac{-15-14}{18} = \frac{-29}{18} = -1\frac{11}{18}$$

$$5) -2\frac{1}{3} - 6\frac{3}{5}$$

$$-\frac{7}{3} - \frac{33}{5}$$

$$-\frac{35}{15} - \frac{99}{15} = \frac{-35-99}{15} = \frac{-134}{15} =$$

$$-8\frac{14}{15}$$

$$6) 6\frac{7}{10} - (-1\frac{1}{5})$$

$$\frac{67}{10} - (-\frac{6}{5})$$

$$\frac{67}{10} + \frac{12}{10} = \frac{67+12}{10} = \frac{79}{10} =$$

$$7\frac{9}{10}$$

*Turn mixed #s into improper fractions.

$$7) -3\frac{2}{7} - 6\frac{3}{7}$$

$$-\frac{23}{7} - \frac{45}{7} = \frac{-23-45}{7} = \frac{-68}{7}$$

$$\textcircled{-9\frac{5}{7}}$$

$$8) -6\frac{2}{3} + 3\frac{1}{3}$$

$$-\frac{20}{3} + \frac{10}{3} = \frac{-20+10}{3} = \frac{-10}{3} =$$

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

$$9) -\frac{2}{3} + \frac{1}{4}$$

$$-\frac{8}{12} + \frac{3}{12} = \frac{-8+3}{12} =$$

$$\textcircled{-\frac{5}{12}}$$

$$10) -\frac{4}{15} - \frac{9}{10}$$

$$-\frac{8}{30} - \frac{27}{30} = \frac{-8-27}{30} =$$

$$\frac{-35}{30} = -\frac{15}{30} =$$

$$\textcircled{-1\frac{1}{6}}$$

$$11) 12\frac{1}{3} - 7\frac{5}{6}$$

$$\frac{37}{3} - \frac{47}{6}$$

$$\frac{74}{6} - \frac{47}{6} = \frac{74-47}{6} = \frac{27}{6} =$$

$$4\frac{3}{6} = \textcircled{4\frac{1}{2}}$$

$$12) 8\frac{1}{6} - 3\frac{8}{9}$$

$$\frac{49}{6} - \frac{35}{9}$$

$$\frac{147}{18} - \frac{70}{18} = \frac{147-70}{18} = \frac{77}{18} =$$

$$\textcircled{4\frac{5}{18}}$$

Homework: Adding and Subtracting Fractions wkst.

Adapted: Adding and Subtracting Fractions wkst. (evens only)