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5.NF.A.2 Converting Unlike Fractions to Like Fractions

5.NF.A.2: Solve word problems involving addition and subtraction of fractions.

1. Add or subtract the unlike fractions. Make them like fractions in order to solve.

   a. $\frac{5}{18} + \frac{1}{9}$

   b. $\frac{5}{6} - \frac{4}{18}$

   c. $\frac{3}{5} - \frac{3}{10}$

   d. $\frac{1}{2} - \frac{5}{12}$

   e. $\frac{1}{3} + \frac{1}{6}$

   f. $\frac{5}{12} - \frac{1}{4}$

   g. $\frac{1}{6} + \frac{2}{3}$

   h. $\frac{19}{21} + \frac{1}{7}$

   Answers:

   a.

   b.

   c.

   d.

   e.

   f.

   g.

   h.

2. Lily needs at least 3 liters of orange juice for her guests. Her mother already made $\frac{6}{7}$ of a liter of orange juice. Her little sister made $\frac{5}{14}$ of a liter of orange juice. How many liters of orange juice was already made? What should be the least volume of orange juice Lily should make so that she can have at least 3 liters of orange juice?

   Answer:

3. Estimate to compare. Write >, <, or = for each box.

   a. $\frac{3}{6} + \frac{4}{12}$ ☐ $\frac{5}{6}$

   c. $\frac{5}{6} - \frac{5}{12}$ ☐ $\frac{2}{3}$

   b. $\frac{1}{5} + \frac{2}{5}$ ☐ $\frac{1}{2}$

   d. $\frac{3}{4} - \frac{4}{12}$ ☐ $\frac{1}{12}$

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Answer Key

5.NF.A.2: Solve word problems involving addition and subtraction of fractions.

1. Add or subtract the unlike fractions. Make them like fractions in order to solve.

   a. $\frac{5}{18} + \frac{1}{9}$ b. $\frac{5}{6} - \frac{4}{18}$ c. $\frac{3}{5} - \frac{3}{10}$ d. $\frac{1}{2} - \frac{5}{12}$

   e. $\frac{1}{3} + \frac{1}{6}$ f. $\frac{5}{12} - \frac{1}{4}$ g. $\frac{1}{6} + \frac{2}{3}$ h. $\frac{19}{21} + \frac{1}{7}$

Answers:

   a. $\frac{7}{18}$ b. $\frac{11}{18}$ c. $\frac{3}{10}$ d. $\frac{1}{12}$

   e. $\frac{7}{6}$ f. $\frac{1}{6}$ g. $\frac{5}{6}$ h. $1\frac{1}{21}$

2. Lily needs at least 3 liters of orange juice for her guests. Her mother already made $\frac{6}{7}$ of a liter of orange juice. Her little sister made $\frac{5}{14}$ of a liter of orange juice. How many liters of orange juice was already made? What should be the least volume of orange juice Lily should make so that she can have at least 3 liters of orange juice?

Answer:

$\frac{6}{7} + \frac{5}{14} = 1\frac{3}{14}$ liter of orange juice was already made

$3 - 1\frac{3}{14} = 2\frac{11}{14}$ liter of orange juice is the least volume of orange juice Lily should make to have 3 liters of orange juice

3. Estimate to compare. Write >, <, or = for each box.

   a. $\frac{3}{6} + \frac{4}{12}$ $\boxed{=}$ $\frac{5}{6}$ c. $\frac{5}{6} - \frac{5}{12}$ $\boxed{<}$ $\frac{2}{3}$

   b. $\frac{1}{5} + \frac{2}{5}$ $\boxed{>}$ $\frac{1}{2}$ d. $\frac{3}{4} - \frac{4}{12}$ $\boxed{>}$ $\frac{1}{12}$