

Add and Subtract Unlike Mixed Numbers - Guided Lesson Explanation**Explanation to #1**

a) Get all the numbers using the same denominator.

The least common multiple of 3 and 9 is 9.

$$\frac{6}{3} = \frac{18}{9}$$

$$\frac{18}{9} - \frac{4}{9} = \frac{14}{9} \quad \text{This is in its simplest form.}$$

b) We need to find the common denominator once again. 20 is the least common multiple of 5 and 4. So we convert everything to a denominator of 20.

$$\frac{7}{5} = \frac{28}{20} \qquad \frac{1}{4} = \frac{5}{20}$$

$$\frac{28}{20} + \frac{5}{20} = \frac{33}{20}$$

Lets change it to a mixed number $\frac{33}{20} = 1\frac{13}{20}$

Explanation to # 2

Subtract. Remember to add whole numbers to whole numbers and fractions to fractions.

The least common denominator of 2 and 4 is 4.

Write $9\frac{1}{2}$ with 4 as the denominator.

We have to simplify this equation and make fraction



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$$9\frac{1}{2} = 9\frac{2}{4}$$

Now simplify.

$$9\frac{2}{4} + 3\frac{6}{4} =$$

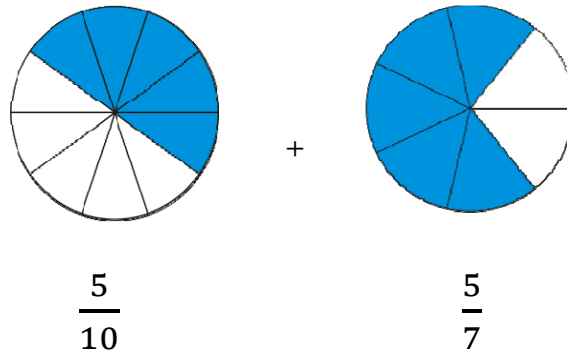
We have Take L.C.M

$$9\frac{2}{4} + 3\frac{6}{4} = \frac{2+6}{4} = 12\frac{8}{4} = 14$$

This answer is in the simplest form.

Explanation to #3

a) We have to add the numbers and write its proper fraction.



Find a common denominator.

70 is a common multiple of 10 and 7.

$$\frac{5}{10} = \frac{35}{70} \quad \frac{5}{7} = \frac{50}{70}$$

$$\frac{35}{70} + \frac{50}{70} = \frac{85}{70}$$

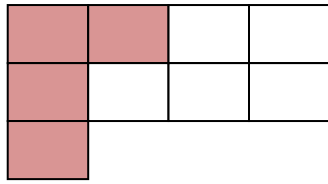
$$\text{Now reduce: } \frac{85}{70} = 1\frac{15}{70} = 1\frac{3}{14}$$



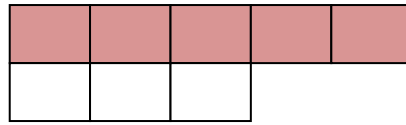
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b) We have to do subtraction and write its proper fraction.



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$$\frac{4}{5}$$

$$\frac{5}{8}$$

Find a common denominator. 40 is a common denominator of 5 and 8.

$$\frac{4}{5} = \frac{32}{40}$$

$$\frac{5}{8} = \frac{25}{40}$$

$$\frac{32}{40} + \frac{25}{40} = \frac{57}{40} = 1 \frac{17}{40}$$

