Name: ..... Class: .....

Add and subtract mixed numbers with unlike dinominators

Add and subtract the following.

Example : $9\frac{2}{3} + 7\frac{5}{7}$

Let's find the LCM and then add (add the whole numbers seperately).

$9\frac{2}{3} + 7\frac{5}{7} = (9+7)\frac{14 + 15}{21} = 16\frac{29}{21} = 21\overline{)29}\ (1,\ -21,\ 8) = 16 + 1\frac{8}{21}$

So, $9\frac{2}{3} + 7\frac{5}{7} = 17\frac{8}{21}$

a. $1\frac{6}{15} + 5\frac{1}{3}$

b. $5\frac{5}{9} - 2\frac{1}{2}$

c. $3\frac{3}{4} + 1\frac{1}{6}$

d. $6\frac{10}{11} - 5\frac{1}{3}$

e. $10\frac{1}{2} + 6\frac{1}{4}$

f. $21\frac{3}{4} - 17\frac{1}{3}$

g. $1\frac{2}{9} + 2\frac{4}{18}$

h. $7\frac{19}{24} - 3\frac{2}{3}$

i. $1\frac{2}{5} + 3\frac{2}{45}$

j. $4\frac{1}{4} - 3\frac{1}{24}$

k. $5\frac{1}{4} + 3\frac{5}{8}$

l. $1\frac{9}{17} - 1\frac{1}{2}$

Solution

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Add and subtract mixed numbers with unlike dinominators

Add and subtract the following.

Example : $9\frac{2}{3} + 7\frac{5}{7}$

Let's find the LCM and then add (add the whole numbers seperately).

$9\frac{2}{3} + 7\frac{5}{7} = (9+7)\frac{14 + 15}{21} = 16\frac{29}{21} = 21\overline{)29}\ (1,\ -21,\ 8) = 16 + 1\frac{8}{21}$

So, $9\frac{2}{3} + 7\frac{5}{7} = 17\frac{8}{21}$

a. $1\frac{6}{15} + 5\frac{1}{3} = 6\frac{11}{15}$

b. $5\frac{5}{9} - 2\frac{1}{2} = 3\frac{1}{18}$

c. $3\frac{3}{4} + 1\frac{1}{6} = 4\frac{22}{24}$

d. $6\frac{10}{11} - 5\frac{1}{3} = 1\frac{19}{33}$

e. $10\frac{1}{2} + 6\frac{1}{4} = 16\frac{3}{4}$

f. $21\frac{3}{4} - 17\frac{1}{3} = 4\frac{5}{12}$

g. $1\frac{2}{9} + 2\frac{4}{18} = 3\frac{8}{18}$

h. $7\frac{19}{24} - 3\frac{2}{3} = 4\frac{3}{24}$

i. $1\frac{2}{5} + 3\frac{2}{45} = 4\frac{20}{45}$

j. $4\frac{1}{4} - 3\frac{1}{24} = 1\frac{5}{24}$

k. $5\frac{1}{4} + 3\frac{5}{8} = 8\frac{7}{8}$

l. $1\frac{9}{17} - 1\frac{1}{2} = \frac{1}{34}$