

Name: Class:

Adding and subtracting mixed numbers with unlike denominators.

Add and subtract the following.

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

e. $11 + 9\frac{1}{3}$

b. $9\frac{2}{3} - 2\frac{7}{21}$

f. $4\frac{7}{9} - 2\frac{2}{3}$

c. $21\frac{2}{3} - 13\frac{3}{8}$

g. $12\frac{1}{4} + 10\frac{5}{6}$

d. $3\frac{2}{13} - 2\frac{3}{26}$

h. $15\frac{4}{5} - 4\frac{3}{7}$

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Adding and subtracting mixed numbers with unlike denominators.

Add and subtract the following.

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

Let's find the LCM of the denominators,
then evaluate.

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

So, $7\frac{1}{4} + 3\frac{5}{8} = 10\frac{7}{8}$

b. $9\frac{2}{3} - 2\frac{7}{21} = (9-2) \frac{14}{21} - \frac{7}{21} = 7\frac{7}{21}$
 $= 7\frac{1}{3}$

So, $9\frac{2}{3} - 2\frac{7}{21} = 7\frac{1}{3}$

c. $21\frac{2}{3} - 13\frac{3}{8} = (21-13) \frac{16}{24} - \frac{9}{24} = 8\frac{7}{24}$

So, $21\frac{2}{3} - 13\frac{3}{8} = 8\frac{7}{24}$

d. $3\frac{2}{13} - 2\frac{3}{26} = (3-2) \frac{4}{26} - \frac{3}{26} = 1\frac{1}{26}$

So, $3\frac{2}{13} - 2\frac{3}{26} = 1\frac{1}{26}$

e. $11 + 9\frac{1}{3} = (11+9) \frac{1}{3} = 20\frac{1}{3}$

So, $11 + 9\frac{1}{3} = 20\frac{1}{3}$

f. $4\frac{7}{9} - 2\frac{2}{3}$

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

So, $4\frac{7}{9} - 2\frac{2}{3} = 2\frac{1}{9}$

g. $12\frac{1}{4} + 10\frac{5}{6} = (12+10) \frac{6}{24} + \frac{20}{24} = 22\frac{26}{24}$

since $\frac{13}{12} = 1\frac{1}{12}$ as a mixed number,
then, $22\frac{13}{12} = (22+1) \frac{1}{12} = 23\frac{1}{12}$

So, $12\frac{1}{4} + 10\frac{5}{6} = 23\frac{1}{12}$

h. $15\frac{4}{5} - 4\frac{3}{7} = (15-4) \frac{28}{35} - \frac{15}{35} = 11\frac{13}{35}$

So, $15\frac{4}{5} - 4\frac{3}{7} = 11\frac{13}{35}$