

Name: Class:

Add and subtract mixed numbers

Add or subtract the following fractions.

$3 \frac{3}{4} + 5 \frac{2}{7}$

$3 \frac{3}{4} = \frac{(3 \times 4) + 3}{4} = \frac{15}{4}$

$5 \frac{2}{7} = \frac{(5 \times 7) + 2}{7} = \frac{37}{7}$

Multiples of 4: 4, 8, 12, 16, 20, 24, 28...
 Multiples of 7: 7, 14, 21, 28...
 The LCM of 4 and 7 is 28

$\frac{15 \times 7}{4 \times 7} = \frac{105}{28}$
 $\frac{37 \times 4}{7 \times 4} = \frac{148}{28}$

$\frac{105}{28} + \frac{148}{28} = \frac{105+148}{28} = \frac{253}{28}$

$28 \overline{) 253} \begin{array}{r} 9 \\ - 252 \\ \hline 1 \end{array}$

Therefore, $3 \frac{3}{4} + 5 \frac{2}{7} = 9 \frac{1}{28}$

Add the following fractions and write the correct answer.

a. $1 \frac{6}{15} + 5 \frac{2}{3} =$

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

b. $2 \frac{5}{17} + 1 \frac{3}{17} =$

e. $52 \frac{1}{8} + 1 \frac{2}{8} =$

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

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

Subtract the following fractions and write the correct answer.

g. $5 \frac{1}{2} - 2 \frac{5}{9} =$

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

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

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

i. $10 \frac{28}{33} - 3 \frac{23}{33} =$

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

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 Multiples of 7: 7, 14, 21, 28...
 The LCM of 4 and 7 is 28

$\frac{15 \times 7}{4 \times 7} = \frac{105}{28}$
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$28 \overline{) 253} \begin{array}{r} 9 \\ - 252 \\ \hline 1 \end{array}$

Therefore, $3 \frac{3}{4} + 5 \frac{2}{7} = 9 \frac{1}{28}$

Add the following fractions and write the correct answer.

a. $1 \frac{6}{15} + 5 \frac{2}{3} = 7 \frac{1}{15}$

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

b. $2 \frac{5}{17} + 1 \frac{3}{17} = 3 \frac{8}{17}$

e. $52 \frac{1}{8} + 1 \frac{2}{8} = 53 \frac{3}{8}$

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

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

Subtract the following fractions and write the correct answer.

g. $5 \frac{1}{2} - 2 \frac{5}{9} = 2 \frac{17}{18}$

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

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

k. $4 \frac{1}{24} - 3 \frac{1}{4} = \frac{19}{24}$

i. $10 \frac{28}{33} - 3 \frac{23}{33} = 7 \frac{5}{33}$

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