

## Name:

## Standard: CCSS.Math.Content.5.NF.A.1

Description: Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 15/12 = 23/12. (In general, a/b + c/d = (ad + bc)/bd.)

## Subtract improper and proper fractions with unlike denominator:

1.       6. $14 \ 2$ $21 \ 1$ $3 \ 11$ $11 \ 2$ 2.       7. $44 \ 4$ $14 \ 1$ $5 \ 6$ $14 \ 1$ $3 \ 11 \ 2$ $14 \ 1$ $3 \ 11 \ 2$ $14 \ 1$ $3 \ 11 \ 2$ $14 \ 1$ $3 \ 11 \ 2$ $14 \ 1$ $11 \ 4$ $14 \ 1$ $3 \ 10 \ 11 \ 10 \ 11$ $8 \ 29 \ 1 \ 4 \ 5$ 4. $9 \ 67 \ 2 \ -1 \ -1 \ 20 \ 10 \ 7$ 5. $10 \ 11 \ 7$ $10 \ 7 \ 2 \ -1 \ 10 \ 7$ 5. $10 \ 12 \ 22 \ 2 \ 12 \ 10 \ 12 \ 10 \ 12 \ 12$		
3 11 $11 2$ 2.       7. $44 4$ $14 1$ $5 6$ $11 4$ $3 .$ $14 1$ $5 6$ $11 4$ $3 .$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $11 4$ $14 1$ $14 1$ $14 1$ $11 4$ $29 1$ $11 4 5$ $10 7$ $10 7$ $10 7$ $10 7$ $10 7$	1.	6.
3       11       11       2	14 2	
2.       7. $44 \ 4$ 14 \ 1 $5 \ 6$ 11 \ 4 $3.$ 8. $19 \ 1$ 29 \ 1 $11 \ 8$ 4 \ 5 $4.$ 9. $67 \ 2$ $=$ $10 \ 11$ 10 \ 7 $5.$ $10.$ $37 \ 1$ $22 \ 2$		
$ \frac{44}{5} \cdot \frac{4}{5} = \frac{14}{5} \cdot \frac{1}{6} = \frac{14}{11} = \frac{1}{11} + \frac{1}{4} = \frac{1}{11} + $	3 11	
$ \frac{44}{5} \cdot \frac{4}{5} = \frac{14}{5} \cdot \frac{1}{6} = \frac{14}{11} = \frac{1}{11} + \frac{1}{4} = \frac{1}{11} + $		
$ \frac{44}{5} \cdot \frac{4}{5} = \frac{14}{5} \cdot \frac{1}{6} = \frac{14}{11} = \frac{1}{11} + \frac{1}{4} = \frac{1}{11} + $		
$ \begin{array}{c} \hline                                    $		
5       6       11       4         3.       8.       29       1 $11$ 8       29       1 $11$ 8       9.       9 $4.$ $67$ $2$ $10$ $11$ $10$ $7$ $5.$ $10.$ $22$ $37$ $1$ $22$		
3.       8. $19 \ 1$ $29 \ 1$ $11 \ 8$ $4 \ 5$ 4.       9. $67 \ 2$ $10 \ 11$ $67 \ 2$ $10 \ 11$ $10 \ 7$ $5.$ $10.$ $37 \ 1$ $22 \ 2$		
$ \begin{array}{c} 19 & 1 \\ \hline 11 & 3 \\ \hline 11 & 8 \\ \hline 12 & 9 & 1 \\ \hline 4 & 5 \\ \hline 9 & 89 & 3 \\ \hline 67 & 2 \\ \hline 10 & 7 \\ \hline 10 & 22 & 2 \\ \hline 10 & 12 \\ \hline 10 & 22 & 2 \\ \hline 10 & 12 \\ \hline $		
$ \begin{array}{c} 19 & 1 \\ \hline 11 & 3 \\ \hline 11 & 8 \\ \hline 12 & 9 & 1 \\ \hline 4 & 5 \\ \hline 9 & 89 & 3 \\ \hline 67 & 2 \\ \hline 10 & 7 \\ \hline 10 & 22 & 2 \\ \hline 10 & 12 \\ \hline 10 & 22 & 2 \\ \hline 10 & 12 \\ \hline $		
$ \begin{array}{c} 19 & 1 \\ \hline 11 & 3 \\ \hline 11 & 8 \\ \hline 12 & 9 & 1 \\ \hline 4 & 5 \\ \hline 9 & 89 & 3 \\ \hline 67 & 2 \\ \hline 10 & 7 \\ \hline 10 & 22 & 2 \\ \hline 10 & 12 \\ \hline 10 & 22 & 2 \\ \hline 10 & 12 \\ \hline $	3	8
$ \begin{array}{c} \hline 11 & 8 \\ 11 & 8 \\ \hline 11 & 8 \\ \hline 4 & 5 \\ \hline 4 & 5 \\ \hline 9 \\ 67 & 2 \\ \hline 67 & 2 \\ \hline 10 & 11 \\ \hline 5 \\ 37 & 1 \\ \hline 10 \\ 22 & 2 \\ \hline \end{array} $		
4.     9.       89 3     67 2       10 11     10 7       5.     10.       37 1     22 2	=	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11 8	4 5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
=      =         10       11         5.       10.         37       1         22       2	4.	9.
10     11       10     7       5.     10.       37     1       22     2		
<b>5.</b> 37 1 22 2		
37 1 22 2		
37 1 22 2		
37 1 22 2		
3/ 1     22 2      =    =       8 2     12 10		
8 2	37 1	22 2
	8 2	12 10

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