

FRACTIONS — Add/Subtract with Different Denominators

fraction #1

fraction #2

$$\frac{2}{\boxed{3}} \quad \begin{array}{c} +/- \\ + \end{array} \quad \frac{1}{\boxed{4}}$$

find LCM

$\boxed{3}$	=	$\frac{3}{\quad}$	$\frac{6}{\quad}$	$\frac{9}{\quad}$	$\frac{\textcircled{12}}{\quad}$	$\frac{\quad}{\quad}$	$\frac{\quad}{\quad}$
$\boxed{4}$	=	$\frac{4}{\quad}$	$\frac{8}{\quad}$	$\frac{\textcircled{12}}{\quad}$	$\frac{\quad}{\quad}$	$\frac{\quad}{\quad}$	$\frac{\quad}{\quad}$

circle the LCM for both numbers

fraction #1 equivalent fraction #1

$$\frac{2}{3} = \frac{8}{\textcircled{12} \text{ LCM}}$$

$\overset{\text{x } 4}{\curvearrowright}$ (from 2 to 8)
 $\underset{\text{x } 4}{\curvearrowright}$ (from 3 to 12)

fraction #2 equivalent fraction #2

$$\frac{1}{4} = \frac{3}{\textcircled{12} \text{ LCM}}$$

$\overset{\text{x } 3}{\curvearrowright}$ (from 1 to 3)
 $\underset{\text{x } 3}{\curvearrowright}$ (from 4 to 12)

equivalent fraction #1 equivalent fraction #2

$$\frac{8}{\textcircled{12}} \quad \begin{array}{c} +/- \\ + \end{array} \quad \frac{3}{\textcircled{12}} = \frac{11}{\textcircled{12}}$$

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fraction #1

fraction #2

+/-

find LCM

[illegible]

circle the LCM for both numbers

fraction #1

equivalent
fraction #1

fraction #2

equivalent
fraction #2

Diagrammatic equation for the LCM rule:

$$\text{Line with arcs } x = \text{Line connected to circle LCM}$$

equivalent
fraction #1

equivalent
fraction #2

+/-

$$\overline{\bigcirc} \square \overline{\bigcirc} = \overline{\bigcirc}$$