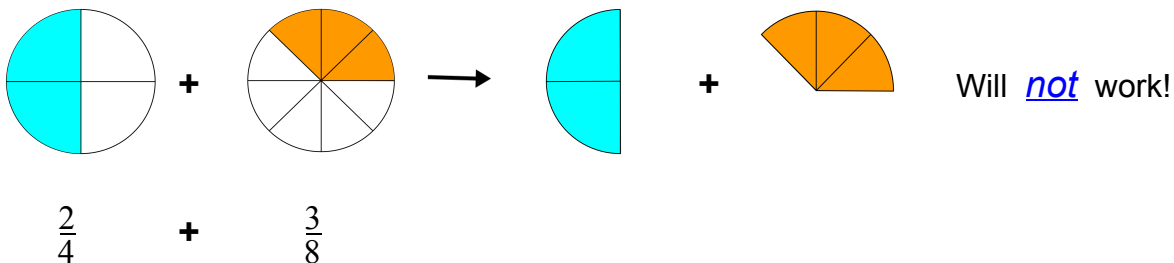


Adding Fractions Different Denominators (Fractions 05) Notes Mathforall.net

- Why do we need the same denominators? And shapes?



- We will use equivalent fractions to make the denominators the same.

$$\frac{2}{4} \xrightarrow{\times 2} \frac{4}{8}$$

4, 8

Draw your rainbows and equivalent fractions.

$$+ \frac{3}{8} \rightarrow \frac{3}{8}$$

$\frac{7}{8}$

$$7 \frac{5}{9} \xrightarrow{\times 5} 7 \frac{25}{45}$$

9, 15

$$15 \times 2 \text{ or } 15 + 15 = \underline{30}$$

$$+ 10 \frac{2}{15} \xrightarrow{\times 3} 10 \frac{6}{45}$$

$$15 \times 3 \text{ or } 30 + 15 = \underline{45}$$

$17 \frac{31}{45}$

- Steps in finding LCD (least common denominator):
 1. Circle bigger denominator.
 2. Do other denominators go into it?
If yes, you found the LCD!
If not, go up again by your circled / bigger number.
(multiply by 2 or add it to itself)
 3. Do other denominators go into that?
Yes, winner!
No, keep going up by bigger # until you get a winner.

Adding Fractions Different Denominators (Fractions 05) Notes

Mathforall.net

- Find the LCD of:

$$4\frac{5}{6}, 2\frac{2}{9}, \frac{3}{4}$$

1. 6, 9, 4

2. circle biggest number

3. do 6 and 4 go into 9? no

4. multiply 9 by 2 = 18

do 6 and 4 go into 18? no

5. multiply 9 by 3 = 27

do 6 and 4 go into 27? no

6. multiply 9 by 4 = 36

do 6 and 4 go into 36? yes

4. $9 \times \underline{4} = 36$

5. $6 \times \underline{6} = 36$

6. $4 \times \underline{9} = 36$

LCD: 36

- Practice

$$\begin{array}{r}
 \begin{array}{c}
 \xrightarrow{\times 8} \\
 5\frac{2}{3} \rightarrow 5\frac{16}{24} \\
 \xrightarrow{\times 8}
 \end{array} \\
 \begin{array}{c}
 \xrightarrow{\times 3} \\
 +1\frac{5}{8} \rightarrow 1\frac{15}{24} \\
 \xrightarrow{\times 3}
 \end{array}
 \end{array}$$

3, 8
24

$$\begin{array}{l}
 6\frac{31}{24} \rightarrow \frac{31}{24} = 1\frac{7}{24} \\
 = 7\frac{7}{24} \leftarrow \begin{array}{l} \text{31} \div \text{24} = \text{1r7} \end{array}
 \end{array}$$