

Fractions (day 2)

April 24, 2019 8:39 AM

- Adding or Subtracting fractions **Needs** the **SAME DENOMINATOR**

- once the denominators are the same, then you add or subtract the **NUMERATORS ONLY**

Solve, put final answers into lowest terms: $\frac{4}{8} \xrightarrow{\div 4} \frac{1}{2}$ *Lowest terms*

a) $\frac{1 \times 3}{3 \times 3} + \frac{1}{9} = \frac{3}{9} + \frac{1}{9} = \left(\frac{4}{9}\right)$
 LCM: 3, 6, 9

b) $\frac{7}{8} - \frac{1 \times 2}{4 \times 2} = \frac{7}{8} - \frac{2}{8} = \left(\frac{5}{8}\right)$
 LCM: 4, 8

c) $\frac{1 \times 3}{2 \times 3} + \frac{1}{6} = \frac{3}{6} + \frac{1}{6} = \frac{4 \div 2}{6 \div 2} = \left(\frac{2}{3}\right)$
 LCM: 2, 4, 6

↑
 4 and 6
 share a common
 factor of 2

d) $\frac{1}{10} + \frac{4 \times 2}{5 \times 2} = \frac{1}{10} + \frac{8}{10} = \left(\frac{9}{10}\right)$
 LCM: 10

e) $\frac{2 \times 4}{3 \times 4} - \frac{1 \times 3}{4 \times 3} = \frac{8}{12} - \frac{3}{12} = \left(\frac{5}{12}\right)$
 LCM: 3 6 9 12 15
4 8 12 16

$\frac{5 \times 3}{8 \times 3} - \frac{5 \times 2}{12 \times 2} = \frac{15}{24} - \frac{10}{24} = \left(\frac{5}{24}\right)$
 LCM: 8 16 24 32
12 24 36

Reducing Your answer "LOWEST TERMS" Find a common value to **DIVIDE OUT** of both num. and den. You might need to do more than once

Always put final answers into lowest terms.

Reduce : a) $\frac{6 \div 2}{18 \div 2} = \frac{3 \div 3}{9 \div 3} = \frac{1}{3}$ b) $\frac{4 \div 4}{16 \div 4} = \frac{1}{4}$ c) $\frac{20 \div 5}{25 \div 5} = \frac{4}{5}$
 Both are correct → $\frac{6 \div 6}{18 \div 6} = \frac{1}{3}$ $\frac{4 \div 2}{16 \div 2} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4}$