

# Adding and Subtracting Fractions and Mixed Numbers Quiz Practice

Thursday, December 11, 2014

Show all work! Simplify your answers.

<p>1) <math>\frac{3}{8} + \frac{1}{4}</math> } LCM = 8</p> $= \frac{3}{8} + \frac{2}{8}$ $= \frac{5}{8}$	<p>2) <math>\frac{7}{9} - \frac{2}{3}</math> } LCM = 9</p> $= \frac{7}{9} - \frac{6}{9}$ $= \frac{1}{9}$
<p>3) <math>\frac{9}{11} - \frac{1}{2}</math> } LCM = 22</p> $= \frac{18}{22} - \frac{11}{22}$ $= \frac{7}{22}$	<p>4) <math>\frac{1}{3} + \frac{2}{5}</math> } LCM = 15</p> $= \frac{5}{15} + \frac{6}{15}$ $= \frac{11}{15}$
<p>5) <math>\frac{3}{5} - \frac{1}{2}</math> } LCM = 10</p> $= \frac{6}{10} - \frac{5}{10}$ $= \frac{1}{10}$	<p>6) <math>\frac{3}{11} + \frac{1}{4}</math> } LCM = 44</p> $= \frac{12}{44} + \frac{11}{44}$ $= \frac{23}{44}$
<p>7) <math>2\frac{1}{3} + 1\frac{5}{9}</math> } LCM = 9</p> $= 2\frac{3}{9} + 1\frac{5}{9}$ $= 3\frac{8}{9}$	<p>8) <math>3\frac{1}{2} - 1\frac{2}{3}</math> } LCM =</p> $= 3\frac{3}{6} - 1\frac{4}{6}$ $= \frac{21}{6} - \frac{10}{6}$ $= \frac{11}{6}$ $= 1\frac{5}{6}$ <p>★ Use the Flag Method</p> $\begin{array}{r} 1 \\ 6 \overline{) 11} \text{ R } 5 \\ \underline{-6} \\ 5 \end{array}$

<p>9) <math>3\frac{2}{3} + 2\frac{1}{5}</math> } LCM = 15</p> <p><math>= 3\frac{10}{15} + 2\frac{3}{15}</math></p> <p><math>= 5\frac{13}{15}</math></p>	<p>10) <math>1\frac{9}{10} + 1\frac{2}{5}</math> } LCM = 10</p> <p><math>= 1\frac{9}{10} + 1\frac{4}{10}</math></p> <p><math>= 2\frac{13}{10}</math></p> <p><math>= 2 + 1\frac{3}{10}</math></p> <p><math>= 3\frac{3}{10}</math></p>
<p>11) <math>3\frac{1}{4} - 1\frac{7}{8}</math> } LCM = 8</p> <p><math>= 3\frac{2}{8} - 1\frac{7}{8}</math></p> <p><math>= \frac{26}{8} - \frac{15}{8}</math></p> <p><math>= \frac{11}{8}</math></p> <p><math>= 1\frac{3}{8}</math></p>	<p>12) <math>2\frac{2}{9} - 1\frac{2}{3}</math> } LCM = 9</p> <p><math>= 2\frac{2}{9} - 1\frac{6}{9}</math></p> <p><math>= \frac{20}{9} - \frac{15}{9}</math></p> <p><math>= \frac{5}{9}</math></p>

13) You give  $\frac{1}{5}$  of a pan of brownies to Susan and  $\frac{2}{3}$  of the pan of brownies to Patrick. How much of the pan of brownies did you give away?

$$\frac{1}{5} + \frac{2}{3} \quad \text{ } \left\{ \begin{array}{l} \text{LCM} = 15 \end{array} \right.$$

$$= \frac{2}{15} + \frac{10}{15}$$

$$= \frac{12}{15}$$

I gave away  $\frac{12}{15}$  of the pan of brownies.

14) Smoogle runs around a  $\frac{4}{5}$  kilometer track three times. How far did he run altogether?

$$\frac{4}{5} + \frac{4}{5} + \frac{4}{5}$$

$$= \frac{12}{5}$$

$$= 2\frac{2}{5}$$

Smoogle ran  $2\frac{2}{5}$  kilometers.

15) Troodle buys  $5\frac{1}{4}$  meters of fabric. He uses  $2\frac{1}{2}$  meters to make a magic cape. How much fabric does Troodle have left?

$$5\frac{1}{4} - 2\frac{1}{2} \quad \left\{ \begin{array}{l} \text{LCM} = 4 \end{array} \right.$$

$$= 5\frac{1}{4} - 2\frac{2}{4}$$

$$= \frac{21}{4} - \frac{10}{4}$$

$$= \frac{11}{4}$$

$$= 2\frac{3}{4}$$

Troodle has  $2\frac{3}{4}$  meters of fabric left.