

## LESSON 28

# Subtraction Of Mixed Numbers

## (Making Common Denominators And Borrowing)

Subtraction of mixed numbers may require both finding common denominators and borrowing. The common denominators should be found first.

Example 1: Subtract

$$7\frac{1}{3} - 2\frac{3}{4}$$

$$7\frac{1}{3} = 7\frac{4}{12} = 6\frac{16}{12}$$

$$- 2\frac{3}{4} = - 2\frac{9}{12} = - 2\frac{9}{12}$$

---


$$4\frac{7}{12}$$

Example 2: Subtract

$$8\frac{5}{9} - 2\frac{5}{6}$$

$$8\frac{5}{9} = 8\frac{10}{18} = 7\frac{28}{18}$$

$$- 2\frac{5}{6} = - 2\frac{15}{18} = - 2\frac{15}{18}$$

---


$$5\frac{13}{18}$$

# Subtract By Borrowing And Give a Reduced Answer

<p>1.</p> $\begin{array}{r} 5 \frac{1}{3} = 5 \frac{2}{6} = 4 \frac{8}{6} \\ - 3 \frac{5}{6} = 3 \frac{5}{6} = 3 \frac{5}{6} \\ \hline 1 \frac{3}{6} = 1 \frac{1}{2} \end{array}$	<p>6.</p> $\begin{array}{r} 15 \frac{3}{10} = \quad = \quad \\ - 7 \frac{81}{100} = \quad = \quad \\ \hline \end{array}$
<p>2.</p> $\begin{array}{r} 16 \frac{1}{4} = \quad = \quad \\ - 2 \frac{7}{8} = \quad = \quad \\ \hline \end{array}$	<p>7.</p> $\begin{array}{r} 8 \frac{5}{9} = \quad = \quad \\ - 1 \frac{31}{36} = \quad = \quad \\ \hline \end{array}$
<p>3.</p> $\begin{array}{r} 7 \frac{1}{15} = \quad = \quad \\ - 2 \frac{3}{5} = \quad = \quad \\ \hline \end{array}$	<p>8.</p> $\begin{array}{r} 16 \frac{7}{40} = \quad = \quad \\ - 2 \frac{4}{5} = \quad = \quad \\ \hline \end{array}$
<p>4.</p> $\begin{array}{r} 5 \frac{1}{3} = \quad = \quad \\ - 2 \frac{7}{12} = \quad = \quad \\ \hline \end{array}$	<p>9.</p> $\begin{array}{r} 4 \frac{1}{12} = \quad = \quad \\ - 1 \frac{41}{72} = \quad = \quad \\ \hline \end{array}$
<p>5.</p> $\begin{array}{r} 6 \frac{3}{8} = \quad = \quad \\ - 1 \frac{17}{24} = \quad = \quad \\ \hline \end{array}$	<p>10.</p> $\begin{array}{r} 3 \frac{7}{48} = \quad = \quad \\ - 2 \frac{11}{16} = \quad = \quad \\ \hline \end{array}$

# Subtract By Borrowing And Give a Reduced Answer

<p>11.</p> $\begin{array}{r} 12 \frac{2}{5} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 7 \frac{2}{3} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$	<p>16.</p> $\begin{array}{r} 13 \frac{2}{9} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 2 \frac{4}{5} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$
<p>12.</p> $\begin{array}{r} 6 \frac{1}{2} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 2 \frac{3}{5} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$	<p>17.</p> $\begin{array}{r} 20 \frac{1}{2} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 1 \frac{14}{15} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$
<p>13.</p> $\begin{array}{r} 7 \frac{3}{4} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 1 \frac{4}{5} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$	<p>18.</p> $\begin{array}{r} 13 \frac{2}{9} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 4 \frac{5}{7} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$
<p>14.</p> $\begin{array}{r} 12 \frac{3}{7} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 2 \frac{3}{4} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$	<p>19.</p> $\begin{array}{r} 6 \frac{1}{8} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 2 \frac{3}{11} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$
<p>15.</p> $\begin{array}{r} 2 \frac{5}{9} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 1 \frac{3}{4} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$	<p>20.</p> $\begin{array}{r} 4 \frac{7}{16} = \quad \underline{\quad} = \quad \underline{\quad} \\ - \\ 1 \frac{2}{3} = \quad \underline{\quad} = \quad \underline{\quad} \\ \hline \end{array}$

# Subtract By Borrowing And Give a Reduced Answer

21.

$$\begin{array}{r} 12 \frac{3}{4} = \quad \text{---} = \quad \text{---} \\ - \\ 1 \frac{5}{6} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

26.

$$\begin{array}{r} 12 \frac{2}{9} = \quad \text{---} = \quad \text{---} \\ - \\ 3 \frac{7}{12} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

22.

$$\begin{array}{r} 7 \frac{3}{8} = \quad \text{---} = \quad \text{---} \\ - \\ 2 \frac{7}{10} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

27.

$$\begin{array}{r} 10 \frac{3}{25} = \quad \text{---} = \quad \text{---} \\ - \\ 4 \frac{11}{20} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

23.

$$\begin{array}{r} 12 \frac{1}{6} = \quad \text{---} = \quad \text{---} \\ - \\ 3 \frac{5}{8} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

28.

$$\begin{array}{r} 3 \frac{7}{20} = \quad \text{---} = \quad \text{---} \\ - \\ 1 \frac{21}{30} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

24.

$$\begin{array}{r} 9 \frac{5}{12} = \quad \text{---} = \quad \text{---} \\ - \\ 3 \frac{8}{9} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

29.

$$\begin{array}{r} 12 \frac{13}{33} = \quad \text{---} = \quad \text{---} \\ - \\ 4 \frac{17}{22} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

25.

$$\begin{array}{r} 6 \frac{5}{12} = \quad \text{---} = \quad \text{---} \\ - \\ 3 \frac{11}{18} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$

30.

$$\begin{array}{r} 10 \frac{3}{24} = \quad \text{---} = \quad \text{---} \\ - \\ 7 \frac{15}{16} = \quad \text{---} = \quad \text{---} \\ \hline \end{array}$$