

LESSON 27

Subtraction Of Unlike Mixed Numbers

Unlike mixed numbers have fractional parts with different denominators.

The difference of two unlike mixed numbers can be found by making common denominators for the fractional parts.

Example: Subtract

$$5 \frac{7}{10} - 1 \frac{3}{8}$$

$$\begin{array}{r} 5 \frac{7}{10} = 4 \frac{28}{40} \\ - 1 \frac{3}{8} = 1 \frac{15}{40} \\ \hline 3 \frac{13}{40} \end{array}$$

Subtract By Making Like Denominators

<p>1.</p> $\begin{array}{r} 12 \frac{7}{8} \\ - 3 \frac{1}{4} \\ \hline 9 \frac{5}{8} \end{array}$	<p>6.</p> $\begin{array}{r} 19 \frac{4}{5} \\ - 12 \frac{7}{30} \\ \hline 7 \frac{17}{30} \end{array}$	<p>11.</p> $\begin{array}{r} 5 \frac{13}{16} \\ - 3 \frac{7}{48} \\ \hline 2 \frac{32}{48} = 2 \frac{2}{3} \end{array}$
<p>2.</p> $\begin{array}{r} 4 \frac{5}{6} \\ - 1 \frac{1}{3} \\ \hline 3 \frac{3}{6} = 3 \frac{1}{2} \end{array}$	<p>7.</p> $\begin{array}{r} 8 \frac{3}{5} \\ - 2 \frac{1}{15} \\ \hline 6 \frac{8}{15} \end{array}$	<p>12.</p> $\begin{array}{r} 8 \frac{24}{25} \\ - 2 \frac{1}{100} \\ \hline 6 \frac{95}{100} = 6 \frac{19}{20} \end{array}$
<p>3.</p> $\begin{array}{r} 9 \frac{17}{24} \\ - 5 \frac{3}{8} \\ \hline 4 \frac{8}{24} = 4 \frac{1}{3} \end{array}$	<p>8.</p> $\begin{array}{r} 7 \frac{23}{24} \\ - 5 \frac{3}{8} \\ \hline 2 \frac{14}{24} = 2 \frac{7}{12} \end{array}$	<p>13.</p> $\begin{array}{r} 12 \frac{15}{16} \\ - 2 \frac{3}{64} \\ \hline 10 \frac{57}{64} \end{array}$
<p>4.</p> $\begin{array}{r} 7 \frac{4}{5} \\ - 3 \frac{3}{20} \\ \hline 4 \frac{13}{20} \end{array}$	<p>9.</p> $\begin{array}{r} 3 \frac{7}{12} \\ - 1 \frac{1}{3} \\ \hline 2 \frac{3}{12} = 2 \frac{1}{4} \end{array}$	<p>14.</p> $\begin{array}{r} 2 \frac{15}{32} \\ - 1 \frac{3}{64} \\ \hline 1 \frac{27}{64} \end{array}$
<p>5.</p> $\begin{array}{r} 7 \frac{29}{36} \\ - 2 \frac{2}{9} \\ \hline 5 \frac{21}{36} \end{array}$	<p>10.</p> $\begin{array}{r} 7 \frac{7}{9} \\ - 1 \frac{5}{36} \\ \hline 6 \frac{23}{36} \end{array}$	<p>15.</p> $\begin{array}{r} 5 \frac{73}{80} \\ - 1 \frac{3}{16} \\ \hline 4 \frac{58}{80} = 4 \frac{29}{40} \end{array}$

Subtract By Making Like Denominators

<p>16.</p> $\begin{array}{r} 7 \frac{2}{3} \\ - 1 \frac{2}{5} \\ \hline \end{array}$ $\begin{array}{r} 7 \frac{10}{15} \\ - 1 \frac{6}{15} \\ \hline 6 \frac{4}{15} \end{array}$	<p>21.</p> $\begin{array}{r} 18 \frac{5}{7} \\ - 2 \frac{4}{9} \\ \hline \end{array}$ $\begin{array}{r} 18 \frac{45}{63} \\ - 2 \frac{28}{63} \\ \hline 16 \frac{17}{63} \end{array}$	<p>26.</p> $\begin{array}{r} 28 \frac{3}{4} \\ - 16 \frac{2}{7} \\ \hline \end{array}$ $\begin{array}{r} 28 \frac{21}{28} \\ - 16 \frac{8}{28} \\ \hline 12 \frac{13}{28} \end{array}$
<p>17.</p> $\begin{array}{r} 8 \frac{3}{5} \\ - 4 \frac{1}{2} \\ \hline \end{array}$ $\begin{array}{r} 8 \frac{6}{10} \\ - 4 \frac{5}{10} \\ \hline 4 \frac{1}{10} \end{array}$	<p>22.</p> $\begin{array}{r} 9 \frac{4}{5} \\ - 2 \frac{3}{4} \\ \hline \end{array}$ $\begin{array}{r} 9 \frac{16}{20} \\ - 2 \frac{15}{20} \\ \hline 7 \frac{1}{20} \end{array}$	<p>27.</p> $\begin{array}{r} 17 \frac{24}{25} \\ - 8 \frac{2}{3} \\ \hline \end{array}$ $\begin{array}{r} 17 \frac{72}{75} \\ - 8 \frac{50}{75} \\ \hline 9 \frac{22}{75} \end{array}$
<p>18.</p> $\begin{array}{r} 13 \frac{14}{15} \\ - 6 \frac{3}{5} \\ \hline \end{array}$ $\begin{array}{r} 13 \frac{14}{15} \\ - 6 \frac{9}{15} \\ \hline 7 \frac{5}{15} = 7 \frac{1}{3} \end{array}$	<p>23.</p> $\begin{array}{r} 16 \frac{11}{12} \\ - 1 \frac{2}{7} \\ \hline \end{array}$ $\begin{array}{r} 16 \frac{77}{84} \\ - 1 \frac{24}{84} \\ \hline 15 \frac{53}{84} \end{array}$	<p>28.</p> $\begin{array}{r} 16 \frac{7}{8} \\ - 7 \frac{2}{9} \\ \hline \end{array}$ $\begin{array}{r} 16 \frac{63}{72} \\ - 7 \frac{16}{72} \\ \hline 9 \frac{47}{72} \end{array}$
<p>19.</p> $\begin{array}{r} 17 \frac{4}{5} \\ - 3 \frac{2}{9} \\ \hline \end{array}$ $\begin{array}{r} 17 \frac{36}{45} \\ - 3 \frac{10}{45} \\ \hline 14 \frac{26}{45} \end{array}$	<p>24.</p> $\begin{array}{r} 7 \frac{10}{11} \\ - 2 \frac{2}{5} \\ \hline \end{array}$ $\begin{array}{r} 7 \frac{50}{55} \\ - 2 \frac{22}{55} \\ \hline 5 \frac{28}{55} \end{array}$	<p>29.</p> $\begin{array}{r} 13 \frac{5}{6} \\ - 4 \frac{3}{7} \\ \hline \end{array}$ $\begin{array}{r} 13 \frac{35}{42} \\ - 4 \frac{18}{42} \\ \hline 9 \frac{17}{42} \end{array}$
<p>20.</p> $\begin{array}{r} 6 \frac{1}{2} \\ - 2 \frac{5}{13} \\ \hline \end{array}$ $\begin{array}{r} 6 \frac{13}{26} \\ - 2 \frac{10}{26} \\ \hline 4 \frac{3}{26} \end{array}$	<p>25.</p> $\begin{array}{r} 18 \frac{11}{12} \\ - 2 \frac{3}{5} \\ \hline \end{array}$ $\begin{array}{r} 18 \frac{55}{60} \\ - 2 \frac{36}{60} \\ \hline 16 \frac{19}{60} \end{array}$	<p>30.</p> $\begin{array}{r} 14 \frac{6}{7} \\ - 3 \frac{5}{12} \\ \hline \end{array}$ $\begin{array}{r} 14 \frac{72}{84} \\ - 3 \frac{35}{84} \\ \hline 11 \frac{37}{84} \end{array}$

Subtract By Making Like Denominators

<p>31.</p> $\begin{array}{r} 4 \frac{5}{6} \\ - 1 \frac{3}{4} \\ \hline \end{array}$ $\begin{array}{r} 4 \frac{10}{12} \\ - 3 \frac{9}{12} \\ \hline 3 \frac{1}{12} \end{array}$	<p>36.</p> $\begin{array}{r} 9 \frac{7}{12} \\ - 2 \frac{2}{9} \\ \hline \end{array}$ $\begin{array}{r} 9 \frac{21}{36} \\ - 2 \frac{8}{36} \\ \hline 7 \frac{13}{36} \end{array}$	<p>41.</p> $\begin{array}{r} 12 \frac{11}{15} \\ - 4 \frac{3}{20} \\ \hline \end{array}$ $\begin{array}{r} 12 \frac{44}{60} \\ - 4 \frac{3}{60} \\ \hline 8 \frac{41}{60} \end{array}$
<p>32.</p> $\begin{array}{r} 9 \frac{7}{10} \\ - 2 \frac{3}{8} \\ \hline \end{array}$ $\begin{array}{r} 9 \frac{28}{40} \\ - 2 \frac{15}{40} \\ \hline 7 \frac{13}{40} \end{array}$	<p>37.</p> $\begin{array}{r} 15 \frac{11}{20} \\ - 2 \frac{7}{25} \\ \hline \end{array}$ $\begin{array}{r} 15 \frac{55}{100} \\ - 2 \frac{28}{100} \\ \hline 13 \frac{27}{100} \end{array}$	<p>42.</p> $\begin{array}{r} 16 \frac{17}{24} \\ - 2 \frac{5}{18} \\ \hline \end{array}$ $\begin{array}{r} 16 \frac{51}{72} \\ - 2 \frac{20}{72} \\ \hline 14 \frac{31}{72} \end{array}$
<p>33.</p> $\begin{array}{r} 13 \frac{5}{8} \\ - 7 \frac{1}{6} \\ \hline \end{array} = \begin{array}{r} 13 \frac{15}{24} \\ - 7 \frac{4}{24} \\ \hline 6 \frac{11}{24} \end{array}$	<p>38.</p> $\begin{array}{r} 16 \frac{29}{30} \\ - 9 \frac{7}{20} \\ \hline \end{array}$ $\begin{array}{r} 16 \frac{58}{60} \\ - 9 \frac{21}{60} \\ \hline 17 \frac{37}{60} \end{array}$	<p>43.</p> $\begin{array}{r} 11 \frac{14}{15} \\ - 7 \frac{7}{8} \\ \hline \end{array}$ $\begin{array}{r} 11 \frac{112}{120} \\ - 7 \frac{105}{120} \\ \hline 4 \frac{7}{120} \end{array}$
<p>34.</p> $\begin{array}{r} 16 \frac{8}{9} \\ - 1 \frac{5}{12} \\ \hline \end{array}$ $\begin{array}{r} 16 \frac{32}{36} \\ - 1 \frac{15}{36} \\ \hline 15 \frac{17}{36} \end{array}$	<p>39.</p> $\begin{array}{r} 15 \frac{19}{22} \\ - 7 \frac{5}{33} \\ \hline \end{array}$ $\begin{array}{r} 15 \frac{57}{66} \\ - 7 \frac{10}{66} \\ \hline 8 \frac{47}{66} \end{array}$	<p>44.</p> $\begin{array}{r} 19 \frac{13}{14} \\ - 6 \frac{5}{21} \\ \hline \end{array}$ $\begin{array}{r} 19 \frac{39}{42} \\ - 6 \frac{10}{42} \\ \hline 13 \frac{29}{42} \end{array}$
<p>35.</p> $\begin{array}{r} 14 \frac{11}{18} \\ - 6 \frac{1}{12} \\ \hline \end{array}$ $\begin{array}{r} 14 \frac{22}{36} \\ - 6 \frac{3}{36} \\ \hline 8 \frac{19}{36} \end{array}$	<p>40.</p> $\begin{array}{r} 18 \frac{15}{16} \\ - 7 \frac{3}{24} \\ \hline \end{array}$ $\begin{array}{r} 18 \frac{45}{48} \\ - 7 \frac{6}{48} \\ \hline 11 \frac{39}{48} = 11 \frac{13}{16} \end{array}$	<p>45.</p> $\begin{array}{r} 15 \frac{23}{26} \\ - 6 \frac{5}{39} \\ \hline \end{array}$ $\begin{array}{r} 15 \frac{69}{78} \\ - 6 \frac{10}{78} \\ \hline 9 \frac{59}{78} \end{array}$