

LESSON 24

Addition Of Mixed Numbers

The sum of two or more mixed numbers can be found by adding the fractional parts and then adding the whole number parts.

Example 1:

$$\begin{array}{r} 5 \\ + \frac{3}{8} \\ \hline 5 \frac{3}{8} \end{array}$$

Example 2:

$$\begin{array}{r} 7 \frac{1}{9} \\ + 3 \frac{4}{9} \\ \hline 10 \frac{5}{9} \end{array}$$

Example 3:

$$\begin{array}{r} 6 \frac{4}{5} = 6 \frac{16}{20} \\ + 2 \frac{3}{4} = 2 \frac{15}{20} \\ \hline 8 \frac{31}{20} = 9 \frac{11}{20} \end{array}$$

Since

$$\frac{31}{20} = 1 \frac{11}{20}$$

$$8 + 1 = 9$$

Add The Mixed Numbers And Give A Reduced Answer

<p>1.</p> $\begin{array}{r} 1 \frac{2}{5} \\ + \frac{1}{5} \\ \hline 1 \frac{3}{5} \end{array}$	<p>6.</p> $\begin{array}{r} \frac{6}{10} \\ + 3 \frac{1}{10} \\ \hline 3 \frac{7}{10} \end{array}$	<p>11.</p> $\begin{array}{r} 2 \frac{3}{7} \\ + 5 \frac{1}{7} \\ \hline 7 \frac{4}{7} \end{array}$	<p>16.</p> $\begin{array}{r} 9 \frac{2}{10} \\ + 4 \frac{7}{10} \\ \hline 13 \frac{9}{10} \end{array}$	<p>21.</p> $\begin{array}{r} 8 \frac{5}{9} \\ + 2 \frac{4}{9} \\ \hline 10 \frac{9}{9} = 11 \end{array}$	<p>26.</p> $\begin{array}{r} 5 \frac{3}{4} \\ + 2 \frac{3}{4} \\ \hline 7 \frac{6}{4} = 8 \frac{1}{2} \end{array}$
<p>2.</p> $\begin{array}{r} 4 \frac{3}{7} \\ + \frac{2}{7} \\ \hline 4 \frac{5}{7} \end{array}$	<p>7.</p> $\begin{array}{r} \frac{4}{12} \\ + 2 \frac{1}{12} \\ \hline 2 \frac{5}{12} \end{array}$	<p>12.</p> $\begin{array}{r} 6 \frac{1}{8} \\ + 2 \frac{5}{8} \\ \hline 8 \frac{6}{8} = 8 \frac{3}{4} \end{array}$	<p>17.</p> $\begin{array}{r} 4 \frac{7}{25} \\ + 3 \frac{9}{25} \\ \hline 7 \frac{16}{25} \end{array}$	<p>22.</p> $\begin{array}{r} 6 \frac{3}{15} \\ + 2 \frac{2}{15} \\ \hline 8 \frac{5}{15} = 8 \frac{1}{3} \end{array}$	<p>27.</p> $\begin{array}{r} 8 \frac{4}{5} \\ + 2 \frac{3}{5} \\ \hline 10 \frac{7}{5} = 11 \frac{2}{5} \end{array}$
<p>3.</p> $\begin{array}{r} 6 \frac{3}{8} \\ + \frac{1}{8} \\ \hline 6 \frac{4}{8} = 6 \frac{1}{2} \end{array}$	<p>8.</p> $\begin{array}{r} \frac{3}{9} \\ + 5 \frac{1}{9} \\ \hline 5 \frac{4}{9} \end{array}$	<p>13.</p> $\begin{array}{r} 5 \frac{1}{11} \\ + 6 \frac{3}{11} \\ \hline 11 \frac{4}{11} \end{array}$	<p>18.</p> $\begin{array}{r} 8 \frac{17}{50} \\ + 2 \frac{3}{50} \\ \hline 10 \frac{20}{50} = 10 \frac{2}{5} \end{array}$	<p>23.</p> $\begin{array}{r} 8 \frac{3}{7} \\ + 1 \frac{4}{7} \\ \hline 9 \frac{7}{7} = 10 \end{array}$	<p>28.</p> $\begin{array}{r} 6 \frac{5}{9} \\ + 2 \frac{7}{9} \\ \hline 8 \frac{12}{9} = 9 \frac{1}{3} \end{array}$
<p>4.</p> $\begin{array}{r} 5 \frac{3}{10} \\ + \frac{1}{10} \\ \hline 5 \frac{4}{10} = 5 \frac{2}{5} \end{array}$	<p>9.</p> $\begin{array}{r} \frac{1}{15} \\ + 2 \frac{3}{15} \\ \hline 2 \frac{4}{15} \end{array}$	<p>14.</p> $\begin{array}{r} 8 \frac{1}{16} \\ + 3 \frac{15}{16} \\ \hline 11 \frac{16}{16} = 12 \end{array}$	<p>19.</p> $\begin{array}{r} 2 \frac{3}{100} \\ + 17 \frac{46}{100} \\ \hline 19 \frac{49}{100} \end{array}$	<p>24.</p> $\begin{array}{r} 6 \frac{5}{16} \\ + 3 \frac{11}{16} \\ \hline 9 \frac{16}{16} = 10 \end{array}$	<p>29.</p> $\begin{array}{r} 3 \frac{15}{16} \\ + 2 \frac{5}{16} \\ \hline 5 \frac{20}{16} = 6 \frac{1}{4} \end{array}$
<p>5.</p> $\begin{array}{r} 1 \frac{5}{12} \\ + \frac{1}{12} \\ \hline 1 \frac{6}{12} = 1 \frac{1}{2} \end{array}$	<p>10.</p> $\begin{array}{r} \frac{5}{12} \\ + 7 \frac{2}{12} \\ \hline 7 \frac{7}{12} \end{array}$	<p>15.</p> $\begin{array}{r} 7 \frac{1}{32} \\ + 2 \frac{3}{32} \\ \hline 9 \frac{4}{32} = 9 \frac{1}{8} \end{array}$	<p>20.</p> $\begin{array}{r} 2 \frac{3}{4} \\ + 4 \frac{1}{4} \\ \hline 6 \frac{4}{4} = 7 \end{array}$	<p>25.</p> $\begin{array}{r} 8 \frac{5}{7} \\ + 2 \frac{9}{7} \\ \hline 10 \frac{14}{7} = 12 \end{array}$	<p>30.</p> $\begin{array}{r} 7 \frac{9}{10} \\ + 2 \frac{3}{10} \\ \hline 9 \frac{12}{10} = 10 \frac{1}{5} \end{array}$

Add The Mixed Numbers And Give A Reduced Answer

<p>31.</p> $\begin{array}{r} 5 \frac{2}{3} = 5 \frac{4}{6} \\ + \frac{1}{6} = \frac{1}{6} \\ \hline 5 \frac{5}{6} \end{array}$	<p>36.</p> $\begin{array}{r} 8 \frac{3}{4} = 8 \frac{9}{12} \\ + \frac{1}{12} = \frac{1}{12} \\ \hline 8 \frac{10}{12} = 8 \frac{5}{6} \end{array}$	<p>41.</p> $\begin{array}{r} 6 \frac{5}{10} = 6 \frac{10}{20} \\ + \frac{3}{20} = \frac{3}{20} \\ \hline 6 \frac{13}{20} \end{array}$
<p>32.</p> $\begin{array}{r} 2 \frac{3}{5} = 2 \frac{6}{10} \\ + \frac{1}{10} = \frac{1}{10} \\ \hline 2 \frac{7}{10} \end{array}$	<p>37.</p> $\begin{array}{r} 5 \frac{1}{18} = 5 \frac{1}{18} \\ + \frac{4}{6} = \frac{12}{18} \\ \hline 5 \frac{13}{18} \end{array}$	<p>42.</p> $\begin{array}{r} 8 \frac{1}{2} = 8 \frac{3}{6} \\ + \frac{2}{3} = \frac{4}{6} \\ \hline 8 \frac{7}{6} = 9 \frac{1}{6} \end{array}$
<p>33.</p> $\begin{array}{r} 8 \frac{1}{8} = 8 \frac{1}{8} \\ + \frac{1}{4} = \frac{2}{8} \\ \hline 8 \frac{3}{8} \end{array}$	<p>38.</p> $\begin{array}{r} 6 \frac{2}{12} = 6 \frac{2}{12} \\ + \frac{1}{4} = \frac{3}{12} \\ \hline 6 \frac{5}{12} \end{array}$	<p>43.</p> $\begin{array}{r} 5 \frac{1}{3} = 5 \frac{5}{15} \\ + \frac{3}{5} = \frac{9}{15} \\ \hline 5 \frac{14}{15} \end{array}$
<p>34.</p> $\begin{array}{r} 6 \frac{5}{12} = 6 \frac{5}{12} \\ + \frac{1}{6} = \frac{2}{12} \\ \hline 6 \frac{7}{12} \end{array}$	<p>39.</p> $\begin{array}{r} 1 \frac{2}{5} = 1 \frac{8}{20} \\ + \frac{7}{20} = \frac{7}{20} \\ \hline 1 \frac{15}{20} = 1 \frac{3}{4} \end{array}$	<p>44.</p> $\begin{array}{r} 6 \frac{1}{8} = 6 \frac{3}{24} \\ + \frac{5}{12} = \frac{10}{24} \\ \hline 6 \frac{13}{24} \end{array}$
<p>35.</p> $\begin{array}{r} 2 \frac{1}{6} = 2 \frac{1}{6} \\ + \frac{2}{3} = \frac{4}{6} \\ \hline 2 \frac{5}{6} \end{array}$	<p>40.</p> $\begin{array}{r} 9 \frac{3}{4} = 9 \frac{9}{12} \\ + \frac{1}{6} = \frac{2}{12} \\ \hline 9 \frac{11}{12} \end{array}$	<p>45.</p> $\begin{array}{r} 3 \frac{2}{9} = 3 \frac{4}{18} \\ + \frac{1}{6} = \frac{3}{18} \\ \hline 3 \frac{7}{18} \end{array}$

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<p>46.</p> $\begin{array}{r} 8 \frac{3}{10} = 8 \frac{9}{30} \\ + 2 \frac{4}{15} = 2 \frac{8}{30} \\ \hline 10 \frac{17}{30} \end{array}$	<p>51.</p> $\begin{array}{r} 7 \frac{8}{10} = 7 \frac{24}{30} \\ + 2 \frac{1}{15} = 2 \frac{2}{30} \\ \hline 9 \frac{26}{30} = 9 \frac{13}{15} \end{array}$	<p>56.</p> $\begin{array}{r} 3 \frac{4}{5} = 3 \frac{12}{15} \\ + 2 \frac{2}{3} = 2 \frac{10}{15} \\ \hline 5 \frac{22}{15} = 6 \frac{7}{15} \end{array}$
<p>47.</p> $\begin{array}{r} 6 \frac{5}{12} = 6 \frac{15}{36} \\ + 2 \frac{1}{18} = 2 \frac{2}{36} \\ \hline 8 \frac{17}{36} \end{array}$	<p>52.</p> $\begin{array}{r} 2 \frac{4}{6} = 2 \frac{4}{6} \\ + 3 \frac{1}{3} = 3 \frac{2}{6} \\ \hline 5 \frac{6}{6} = 6 \end{array}$	<p>57.</p> $\begin{array}{r} 8 \frac{5}{6} = 8 \frac{10}{12} \\ + 1 \frac{3}{4} = 1 \frac{9}{12} \\ \hline 9 \frac{19}{12} = 10 \frac{7}{12} \end{array}$
<p>48.</p> $\begin{array}{r} 9 \frac{3}{20} = 9 \frac{15}{100} \\ + 4 \frac{7}{25} = 4 \frac{28}{100} \\ \hline 13 \frac{43}{100} \end{array}$	<p>53.</p> $\begin{array}{r} 2 \frac{5}{15} = 2 \frac{5}{15} \\ + 6 \frac{1}{3} = 6 \frac{5}{15} \\ \hline 8 \frac{10}{15} = 8 \frac{2}{3} \end{array}$	<p>58.</p> $\begin{array}{r} 7 \frac{5}{9} = 7 \frac{10}{18} \\ + 3 \frac{5}{6} = 3 \frac{15}{18} \\ \hline 10 \frac{25}{18} = 11 \frac{7}{18} \end{array}$
<p>49.</p> $\begin{array}{r} 4 \frac{1}{24} = 4 \frac{3}{72} \\ + 7 \frac{5}{18} = 7 \frac{20}{72} \\ \hline 11 \frac{23}{72} \end{array}$	<p>54.</p> $\begin{array}{r} 8 \frac{4}{7} = 8 \frac{8}{14} \\ + 3 \frac{6}{14} = 3 \frac{6}{14} \\ \hline 11 \frac{14}{14} = 12 \end{array}$	<p>59.</p> $\begin{array}{r} 7 \frac{11}{12} = 7 \frac{33}{36} \\ + 3 \frac{7}{9} = 3 \frac{28}{36} \\ \hline 10 \frac{61}{36} = 11 \frac{25}{36} \end{array}$
<p>50.</p> $\begin{array}{r} 8 \frac{3}{4} = 8 \frac{9}{12} \\ + 2 \frac{3}{12} = 2 \frac{3}{12} \\ \hline 10 \frac{12}{12} = 11 \end{array}$	<p>55.</p> $\begin{array}{r} 3 \frac{12}{25} = 3 \frac{48}{100} \\ + 7 \frac{52}{100} = 7 \frac{52}{100} \\ \hline 10 \frac{100}{100} = 11 \end{array}$	<p>60.</p> $\begin{array}{r} 5 \frac{25}{26} = 5 \frac{75}{78} \\ + 2 \frac{35}{39} = 2 \frac{70}{78} \\ \hline 7 \frac{145}{78} = 8 \frac{67}{78} \end{array}$