

Fractions

7

Adding Mixed Numbers

Add the whole numbers, add the fractions, convert improper fractions if necessary and add to the whole number.

$$\begin{array}{r}
 1. \quad 4 \frac{3}{4} + 5 \frac{7}{8} = 9 \frac{13}{8} = 10 \frac{5}{8} \\
 + 5 \frac{7}{8} + \frac{2}{8} \\
 \hline
 9 + \frac{13}{8} = 9 + 1 \frac{5}{8} = \boxed{10 \frac{5}{8}}
 \end{array}$$

$$\begin{array}{r}
 2. \quad 3 \frac{3}{5} + 2 \frac{4}{7} = 5 \frac{6}{35} \\
 + 2 \frac{4}{7} \\
 \hline
 5 + 1 \frac{6}{35} = \boxed{6 \frac{6}{35}}
 \end{array}$$

$$\begin{array}{r}
 3. \quad 1 \frac{9}{11} + 6 \frac{4}{5} = 7 \frac{34}{55} \\
 + 6 \frac{4}{5} = \frac{89}{55} \\
 = \frac{134}{55} \\
 \hline
 7 + 1 \frac{34}{55} = \boxed{8 \frac{34}{55}}
 \end{array}$$

$$\begin{array}{r}
 4. \quad 5 \frac{1}{4} + 5 \frac{8}{9} = 10 \frac{5}{36} \\
 + 5 \frac{8}{9} = \frac{41}{36} = 1 \frac{5}{36} \\
 \hline
 10 + 1 \frac{5}{36} = \boxed{11 \frac{5}{36}}
 \end{array}$$

$$\begin{array}{r}
 5. \quad 1 \frac{4}{7} + 3 \frac{3}{5} = 4 \frac{6}{35} \\
 + 3 \frac{3}{5} = 1 \frac{6}{35} \\
 \hline
 4 + 1 \frac{6}{35} = \boxed{5 \frac{6}{35}}
 \end{array}$$

$$\begin{array}{r}
 6. \quad 8 \frac{7}{13} + 7 \frac{7}{12} = 15 \frac{19}{156} \\
 + 7 \frac{7}{12} = \frac{175}{156} = 1 \frac{19}{156} \\
 \hline
 15 + 1 \frac{19}{156} = \boxed{16 \frac{19}{156}}
 \end{array}$$

$$\begin{array}{r}
 7. \quad 9 \frac{3}{4} + 5 \frac{7}{8} = 14 \frac{3}{8} \\
 + 5 \frac{7}{8} = 1 \frac{3}{8} \\
 \hline
 9 + 1 \frac{3}{8} = \boxed{10 \frac{3}{8}}
 \end{array}$$

$$\begin{array}{r}
 8. \quad 1 \frac{2}{3} + 4 \frac{5}{7} = 5 \frac{55}{21} \\
 + 4 \frac{5}{7} = 1 \frac{8}{21} \\
 \hline
 5 + 1 \frac{8}{21} = \boxed{6 \frac{8}{21}}
 \end{array}$$

$$\begin{array}{r}
 9. \quad 2 \frac{6}{7} + 3 \frac{1}{8} = 5 \frac{55}{56} \\
 + 3 \frac{1}{8} \\
 \hline
 \boxed{5 \frac{55}{56}}
 \end{array}$$

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Homework

Adding Mixed Numbers

Add the whole numbers, add the fractions, convert improper fractions if necessary and add to the whole number.

$$\begin{array}{r} 16 \\ 1 \frac{2}{5} + \frac{7}{8} \frac{51}{40} \\ + 2 \frac{7}{8} = 1 \frac{11}{40} \end{array}$$

$$3 + 1 \frac{11}{40} = \boxed{4 \frac{11}{40}}$$

$$\begin{array}{r} 12 \\ 4 \\ 8 \frac{4}{7} + \frac{2}{3} \frac{14}{3} \\ + 11 \frac{2}{3} \frac{26}{21} = 1 \frac{5}{21} \end{array}$$

$$19 + 1 \frac{5}{21} = \boxed{20 \frac{5}{21}}$$

$$\begin{array}{r} 4 \frac{1}{9} \\ + 5 \frac{8}{9} \end{array}$$

$$9 + \frac{9}{9} = \boxed{10}$$

$$\begin{array}{r} 70 \\ 3 \frac{7}{11} + \frac{6}{10} \frac{66}{10} \\ + 4 \frac{6}{10} \frac{136}{110} \\ = 1 \frac{26}{110} \div 2 \end{array}$$

$$7 + 1 \frac{13}{55} = \boxed{8 \frac{13}{55}}$$

$$\begin{array}{r} 96 \\ 8 \\ 7 \frac{8}{9} + \frac{5}{12} \frac{45}{12} \\ + 9 \frac{5}{12} \frac{141}{108} \end{array}$$

$$16 + 1 \frac{33}{108} = \boxed{17 \frac{33}{108}}$$

$$\begin{array}{r} 65 \\ 5 \\ 6 \frac{5}{8} + \frac{6}{13} \frac{48}{13} \\ + 7 \frac{6}{13} \frac{113}{104} \\ = 1 \frac{9}{104} \end{array}$$

$$13 + 1 \frac{9}{104} = \boxed{14 \frac{9}{104}}$$

$$\begin{array}{r} 20 \\ 5 \frac{5}{6} + \frac{3}{4} \frac{18}{4} = \frac{38}{24} \\ + 6 \frac{3}{4} = 1 \frac{14}{24} \div 2 \\ = 1 \frac{7}{12} \end{array}$$

$$11 + 1 \frac{7}{12} = \boxed{12 \frac{7}{12}}$$

$$\begin{array}{r} 26 \\ 2 \\ 2 \frac{2}{11} + \frac{3}{13} \frac{33}{13} \frac{59}{143} \\ + 3 \frac{3}{13} \end{array}$$

$$5 + \frac{59}{143} = \boxed{5 \frac{59}{143}}$$

$$\begin{array}{r} 66 \\ 6 \\ 13 \frac{6}{7} + \frac{8}{11} \frac{56}{11} \\ + 4 \frac{8}{11} \frac{122}{77} \\ = 1 \frac{45}{77} \end{array}$$

$$17 + 1 \frac{45}{77} = \boxed{18 \frac{45}{77}}$$

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