

Mixed Number Arithmetic Solutions

$$\begin{aligned}
 1) \quad & 4\frac{1}{3} + 2\frac{2}{5} \\
 &= 6\frac{5+6}{15} \\
 &= 6\frac{11}{15}
 \end{aligned}$$

$$\begin{aligned}
 2) \quad & 1\frac{3}{4} + 2\frac{1}{3} \\
 &= 3\frac{9+4}{12} \\
 &= 3\frac{13}{12} \\
 &= 4\frac{1}{12}
 \end{aligned}$$

$$\begin{aligned}
 3) \quad & 8\frac{1}{2} - 1\frac{1}{3} \\
 &= 7\frac{3-2}{6} \\
 &= 7\frac{1}{6}
 \end{aligned}$$

$$\begin{aligned}
 4) \quad & 7\frac{1}{3} - 5\frac{3}{5} \\
 &= 12\frac{5-9}{15} \\
 &= 1\frac{11}{15}
 \end{aligned}$$

$$\begin{aligned}
 5) \quad & 3\frac{3}{4} \times 1\frac{2}{5} \\
 &= \frac{3\cancel{15}}{4} \times \frac{7}{\cancel{5}_1} \\
 &= \frac{3 \times 7}{4 \times 1} \\
 &= \frac{21}{4} = 5\frac{1}{4}
 \end{aligned}$$

$$\begin{aligned}
 6) \quad & 5\frac{1}{4} \times 1\frac{3}{7} \\
 &= \frac{3\cancel{21}}{4} \times \frac{10^5}{\cancel{7}_1} \\
 &= \frac{3 \times 5}{2 \times 1} \\
 &= \frac{15}{2} = 7\frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 7) \quad & 8\frac{3}{4} \div 1\frac{2}{5} \\
 &= \frac{35}{4} \div \frac{7}{5} \\
 &= \frac{\cancel{35}^5}{4} \times \frac{5}{\cancel{7}_1} \\
 &= \frac{5 \times 5}{4 \times 1} \\
 &= \frac{25}{4} = 6\frac{1}{4}
 \end{aligned}$$

$$\begin{aligned}
 8) \quad & 6\frac{1}{4} \div 2\frac{1}{2} \\
 &= \frac{25}{4} \div \frac{5}{2} \\
 &= \frac{\cancel{25}^5}{4_2} \times \frac{2^1}{\cancel{5}_1} \\
 &= \frac{5 \times 1}{2 \times 1} \\
 &= \frac{5}{2} = 2\frac{1}{2}
 \end{aligned}$$