

Subtracting Fractions with Borrow, and Adding Fractions with Carry

Subtract these numbers, fractions or mixed numbers. Show ALL working.

$$\begin{array}{r} 1) \quad 7 \frac{1}{4} \\ - 3 \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 5 \frac{2}{7} \\ - 1 \frac{4}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 6 \\ - 2 \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 9 \frac{2}{5} \\ - 4 \frac{7}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 12 \frac{1}{4} \\ - 7 \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 10 \\ - 2 \frac{3}{10} \\ \hline \end{array}$$

Now **add** these numbers, fractions or mixed numbers. Follow these steps:

- Add the fractions first. You may have to put over a common denominator.
- If the sum of the fractions give an improper fraction (more than a whole), change it to a mixed number, write only the fraction part and **carry** the whole.
- Add the whole numbers, including the carried whole number if there is one.

$$\begin{array}{r} 7) \quad 2 \frac{3}{8} \\ + 1 \frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 3 \frac{6}{11} \\ + 4 \frac{8}{11} \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad \frac{4}{5} \\ + 3 \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 12 \frac{7}{8} \\ + 4 \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 2 \frac{5}{9} \\ + \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad \frac{11}{20} \\ + 3 \frac{3}{5} \\ \hline \end{array}$$

I affirm that this test was done under test conditions. Parent signature: _____

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Answers

Do not give this to the student.

If the student does not reduce their final answer, don't mark it incorrect, but show them where they could have done so.

$$\begin{array}{r}
 1) \quad \overset{6}{\cancel{7}} \overset{5}{\cancel{\frac{1}{4}}} \\
 - 3 \frac{3}{4} \\
 \hline
 3 \frac{2}{4} \text{ OR } 3 \frac{1}{2}
 \end{array}$$

$$\begin{array}{r}
 2) \quad \overset{4}{\cancel{5}} \overset{9}{\cancel{\frac{2}{7}}} \\
 - 1 \frac{4}{7} \\
 \hline
 3 \frac{5}{7}
 \end{array}$$

$$\begin{array}{r}
 3) \quad \overset{5}{\cancel{6}} \overset{8}{\cancel{\frac{8}{8}}} \\
 - 2 \frac{3}{8} \\
 \hline
 3 \frac{5}{8}
 \end{array}$$

$$\begin{array}{r}
 4) \quad \overset{8}{\cancel{9}} \overset{21}{\cancel{\frac{2 \times 3}{5 \times 3}} \frac{6}{15}} \\
 - 4 \frac{7}{15} \frac{7}{15} \\
 \hline
 4 \frac{14}{15}
 \end{array}$$

$$\begin{array}{r}
 5) \quad \overset{11}{\cancel{12}} \overset{25}{\cancel{\frac{1 \times 5}{4 \times 5}} \frac{5}{20}} \\
 - 7 \frac{3 \times 4}{5 \times 4} \frac{12}{20} \\
 \hline
 4 \frac{13}{20}
 \end{array}$$

$$\begin{array}{r}
 6) \quad \overset{9}{\cancel{10}} \overset{10}{\cancel{\frac{10}{10}}} \\
 - 2 \frac{3}{10} \\
 \hline
 7 \frac{7}{10}
 \end{array}$$

$$\begin{array}{r}
 7) \quad 2 \frac{3}{8} \\
 + 1 \frac{7}{8} \\
 \hline
 1 \leftarrow \frac{10}{8} = 1 \frac{2}{8} \\
 4 \frac{2}{8} \text{ OR } 4 \frac{1}{4}
 \end{array}$$

$$\begin{array}{r}
 8) \quad 3 \frac{6}{11} \\
 + 4 \frac{8}{11} \\
 \hline
 1 \leftarrow \frac{14}{11} = 1 \frac{3}{11} \\
 8 \frac{3}{11}
 \end{array}$$

$$\begin{array}{r}
 9) \quad \frac{4}{5} \\
 + 3 \frac{3}{5} \\
 \hline
 1 \leftarrow \frac{7}{5} = 1 \frac{2}{5} \\
 4 \frac{2}{5}
 \end{array}$$

$$\begin{array}{r}
 10) \quad 12 \frac{7}{8} \frac{7}{8} \\
 + 4 \frac{3 \times 2}{4 \times 2} \frac{6}{8} \\
 \hline
 1 \leftarrow \frac{13}{8} = 1 \frac{5}{8} \\
 17 \frac{5}{8}
 \end{array}$$

$$\begin{array}{r}
 11) \quad 2 \frac{5}{9} \frac{5}{9} \\
 + \frac{2 \times 3}{3 \times 3} \frac{6}{9} \\
 \hline
 1 \leftarrow \frac{11}{9} = 1 \frac{2}{9} \\
 3 \frac{2}{9}
 \end{array}$$

$$\begin{array}{r}
 12) \quad \frac{11}{20} \frac{11}{20} \\
 + 3 \frac{3 \times 4}{5 \times 4} \frac{12}{20} \\
 \hline
 1 \leftarrow \frac{23}{20} = 1 \frac{3}{20} \\
 4 \frac{3}{20}
 \end{array}$$