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Lesson 1.4 Adding Fractions and Mixed Numbers

To add fractions or mixed numbers when the denominators are different, rename the fractions so the denominators are the same.

$$\begin{array}{r} \frac{2}{3} \\ +\frac{3}{7} \\ \hline \end{array} = \begin{array}{r} \frac{2}{3}\times\frac{7}{7} \\ +\frac{3}{7}\times\frac{3}{3} \\ \hline \end{array} = \begin{array}{r} \frac{14}{21} \\ +\frac{9}{21} \\ \hline \frac{23}{21} = 1\frac{2}{21} \end{array}$$

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

Add. Write each answer in simplest form.

	a	b	c	d
1.	$\frac{3}{4}+\frac{5}{8}$	$\frac{1}{2}+\frac{1}{3}$	$\frac{3}{4}+\frac{2}{5}$	$\frac{1}{6}+\frac{1}{3}$
2.	$\frac{3}{8}+\frac{4}{5}$	$\frac{1}{2}+\frac{3}{10}$	$\frac{2}{3}+\frac{3}{12}$	$\frac{3}{4}+\frac{7}{10}$
3.	$\frac{1}{4}+\frac{3}{8}$	$\frac{2}{5}+\frac{3}{7}$	$\frac{1}{7}+\frac{7}{8}$	$\frac{2}{3}+\frac{1}{5}$
4.	$1\frac{1}{3}+2\frac{1}{4}$	$3\frac{3}{8}+7\frac{1}{2}$	$4\frac{2}{7}+2\frac{1}{3}$	$1\frac{2}{5}+3\frac{3}{10}$
5.	$4\frac{4}{9}+3\frac{1}{3}$	$1\frac{1}{8}+1\frac{7}{10}$	$2\frac{1}{6}+3\frac{5}{8}$	$1\frac{3}{7}+2\frac{1}{5}$
6.	$3\frac{1}{2}+2\frac{1}{4}$	$2\frac{5}{6}+1\frac{5}{9}$	$3\frac{4}{7}+1\frac{1}{10}$	$4\frac{1}{3}+2\frac{1}{2}$