

Addition of Fractions

EXAMPLE $12\frac{1}{5} + 4\frac{3}{5} =$

Write this:

$$\begin{array}{r} 12\frac{1}{5} \\ + 4\frac{3}{5} \\ \hline 16\frac{4}{5} \end{array}$$

If the denominators are the same, then add the numerators.

EXAMPLE $13\frac{2}{7} + 3\frac{3}{14} =$

Write this:

$$\begin{array}{r} 13\frac{2}{7} = 13\frac{4}{14} \\ + 3\frac{3}{14} = 3\frac{3}{14} \\ \hline 16\frac{7}{14} = 16\frac{1}{2} \end{array}$$

Find the least common denominator. Then add.

Simplify to the lowest terms.

Directions Add. Simplify your answers to the lowest terms.

1. $\begin{array}{r} 6\frac{1}{8} \\ + 3\frac{3}{8} \\ \hline \end{array}$

7. $\begin{array}{r} 10\frac{1}{2} \\ + 6 \\ \hline \end{array}$

13. $\begin{array}{r} 4\frac{5}{8} \\ + \frac{3}{16} \\ \hline \end{array}$

19. $\begin{array}{r} 12\frac{1}{13} \\ + 5\frac{7}{52} \\ \hline \end{array}$

2. $\begin{array}{r} 16\frac{5}{16} \\ + 3\frac{2}{16} \\ \hline \end{array}$

8. $\begin{array}{r} \frac{2}{3} \\ + \frac{1}{3} \\ \hline \end{array}$

14. $\begin{array}{r} \frac{7}{15} \\ + \frac{19}{30} \\ \hline \end{array}$

20. $\begin{array}{r} 3\frac{7}{8} \\ + \frac{7}{16} \\ \hline \end{array}$

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

9. $\begin{array}{r} \frac{3}{4} \\ + \frac{5}{8} \\ \hline \end{array}$

15. $\begin{array}{r} \frac{8}{9} \\ + \frac{5}{6} \\ \hline \end{array}$

21. $\begin{array}{r} 1\frac{9}{20} \\ + 4\frac{7}{15} \\ \hline \end{array}$

4. $\begin{array}{r} 6\frac{1}{9} \\ + 4\frac{7}{9} \\ \hline \end{array}$

10. $\begin{array}{r} 6\frac{1}{10} \\ + 2\frac{7}{10} \\ \hline \end{array}$

16. $\begin{array}{r} 4\frac{2}{5} \\ + 6\frac{1}{6} \\ \hline \end{array}$

22. $\begin{array}{r} 45\frac{5}{16} \\ + 6\frac{18}{64} \\ \hline \end{array}$

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

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

17. $\begin{array}{r} 7\frac{1}{5} \\ + 3\frac{2}{3} \\ \hline \end{array}$

23. $\begin{array}{r} 2 \\ + 5\frac{4}{5} \\ \hline \end{array}$

6. $\begin{array}{r} 3\frac{5}{9} \\ + \frac{2}{9} \\ \hline \end{array}$

12. $\begin{array}{r} 17\frac{1}{2} \\ + 6\frac{3}{4} \\ \hline \end{array}$

18. $\begin{array}{r} 8\frac{1}{6} \\ + 7\frac{1}{9} \\ \hline \end{array}$

24. $\begin{array}{r} 12\frac{5}{9} \\ + 2\frac{7}{8} \\ \hline \end{array}$



Subtraction of Fractions

EXAMPLE $13 \frac{11}{12} - 2 \frac{2}{12} =$

Write this:
$$\begin{array}{r} 13 \frac{11}{12} \\ - 2 \frac{2}{12} \\ \hline 11 \frac{9}{12} = 11 \frac{3}{4} \end{array}$$
 If the denominators are the same, then subtract the numerators. Simplify to the lowest terms.

EXAMPLE $6 \frac{5}{7} - 2 \frac{3}{21} =$

Write this:
$$\begin{array}{r} 6 \frac{5}{7} = 6 \frac{15}{21} \\ - 2 \frac{3}{21} = 2 \frac{3}{21} \\ \hline 4 \frac{12}{21} = 4 \frac{4}{7} \end{array}$$
 Find the least common denominator. Then subtract.

Directions Subtract. Simplify your answers to the lowest terms.

1.
$$\begin{array}{r} \frac{5}{9} \\ - \frac{2}{9} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 6 \frac{4}{5} \\ - 2 \frac{6}{10} \\ \hline \end{array}$$

13.
$$\begin{array}{r} 9 \frac{7}{8} \\ - 6 \frac{5}{16} \\ \hline \end{array}$$

19.
$$\begin{array}{r} 3 \frac{19}{28} \\ - \frac{4}{7} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 9 \frac{11}{13} \\ - 6 \frac{1}{13} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 12 \frac{3}{17} \\ - 2 \frac{1}{34} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 7 \frac{7}{15} \\ - 5 \frac{9}{30} \\ \hline \end{array}$$

20.
$$\begin{array}{r} 12 \frac{1}{6} \\ - 9 \frac{1}{9} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 5 \frac{7}{8} \\ - 3 \frac{3}{4} \\ \hline \end{array}$$

9.
$$\begin{array}{r} 3 \frac{5}{7} \\ - \frac{3}{8} \\ \hline \end{array}$$

15.
$$\begin{array}{r} 14 \frac{5}{8} \\ - 3 \frac{3}{6} \\ \hline \end{array}$$

21.
$$\begin{array}{r} 46 \frac{3}{13} \\ - 39 \frac{4}{39} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 9 \frac{4}{9} \\ - 1 \frac{6}{18} \\ \hline \end{array}$$

10.
$$\begin{array}{r} 11 \frac{7}{8} \\ - 8 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 11 \frac{9}{10} \\ - 8 \frac{4}{5} \\ \hline \end{array}$$

22.
$$\begin{array}{r} 15 \frac{1}{2} \\ - 7 \frac{3}{9} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6 \frac{17}{16} \\ - 5 \frac{3}{4} \\ \hline \end{array}$$

11.
$$\begin{array}{r} 13 \frac{5}{8} \\ - 7 \frac{3}{6} \\ \hline \end{array}$$

17.
$$\begin{array}{r} 35 \frac{7}{8} \\ - 18 \frac{1}{6} \\ \hline \end{array}$$

23.
$$\begin{array}{r} 36 \frac{2}{11} \\ - 7 \frac{3}{33} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 32 \frac{1}{3} \\ - 8 \frac{1}{6} \\ \hline \end{array}$$

12.
$$\begin{array}{r} 8 \frac{3}{11} \\ - 1 \frac{5}{33} \\ \hline \end{array}$$

18.
$$\begin{array}{r} 15 \frac{7}{16} \\ - 6 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 14 \frac{3}{5} \\ - 8 \frac{7}{25} \\ \hline \end{array}$$

