

SKILL
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Adding Fractions

To add fractions with like denominators, add the numerators. Write the sum over the common denominator. Simplify the sum if possible.

Example 1 Add: $\frac{7}{8} + \frac{5}{8}$.

$$\begin{array}{r} \frac{7}{8} \\ + \frac{5}{8} \\ \hline \frac{12}{8} = \frac{3}{2} \text{ or } 1\frac{1}{2} \end{array}$$

Simplify the sum.

To add fractions with unlike denominators, rename the fractions with a common denominator. Then add the fractions.

Example 2 Add: $\frac{1}{9} + \frac{5}{6}$.

$$\begin{array}{r} \frac{1}{9} = \frac{2}{18} \\ + \frac{5}{6} = \frac{15}{18} \\ \hline \frac{17}{18} \end{array}$$

Use 18 for the common denominator.

Add.

1.
$$\begin{array}{r} \frac{4}{7} \\ + \frac{2}{7} \\ \hline \end{array}$$

2.
$$\begin{array}{r} \frac{5}{9} \\ + \frac{4}{9} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{11}{15} \\ + \frac{2}{15} \\ \hline \end{array}$$

4.
$$\begin{array}{r} \frac{11}{15} \\ + \frac{7}{15} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{6}{7} \\ + \frac{6}{7} \\ \hline \end{array}$$

6.
$$\begin{array}{r} \frac{11}{12} \\ + \frac{5}{12} \\ \hline \end{array}$$

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Adding Fractions *(continued)*

Add.

$$\begin{array}{r} 7. \quad \frac{3}{8} \\ + \frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \frac{12}{13} \\ + \frac{14}{13} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \frac{1}{2} \\ + \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \frac{1}{8} \\ + \frac{1}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \frac{1}{3} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \frac{3}{5} \\ + \frac{2}{7} \\ \hline \end{array}$$

$$13. \quad \frac{7}{16} + \frac{3}{8}$$

$$14. \quad \frac{7}{10} + \frac{2}{5}$$

$$15. \quad \frac{3}{14} + \frac{1}{7}$$

$$16. \quad \frac{5}{12} + \frac{1}{3}$$

$$17. \quad \frac{1}{6} + \frac{1}{8}$$

$$18. \quad \frac{1}{6} + \frac{4}{9}$$

$$19. \quad \frac{3}{8} + \frac{5}{8} + \frac{1}{8}$$

$$20. \quad \frac{1}{2} + \frac{1}{3} + \frac{1}{4}$$

$$21. \quad \frac{2}{3} + \frac{3}{4} + \frac{1}{6}$$

22. After running $\frac{7}{8}$ mile in a horse race, a horse ran an additional $\frac{3}{8}$ mile to cool down. How far did the horse run altogether?

23. In 1991, about $\frac{1}{5}$ of the crude oil produced was from North America, and about $\frac{2}{7}$ of the crude oil produced was from the Middle East. What fraction of the crude oil produced was from North America or the Middle East?

24. In 1991, about $\frac{3}{10}$ of the petroleum consumed was in North America, and about $\frac{1}{5}$ of the petroleum consumed was in Western Europe. What fraction of the petroleum consumed was in North America or Western Europe?