

# Subtract Mixed Numbers



When subtracting mixed numbers, you may have to rename twice. First, you must rename one or both fractions using the LCD. Then you must rename a mixed or whole number so you can subtract the fractions.

Subtract  $9\frac{3}{10} - 3\frac{1}{2}$ .

Estimate:  $9 - 4 = 5$

**Step 1**

Write the problem in vertical form.

Write equivalent fractions using the LCD.

$$\begin{array}{r} 9\frac{3}{10} = 9\frac{3}{10} \\ - 3\frac{1}{2} = - 3\frac{5}{10} \end{array}$$

**Step 2**

Rename the mixed number you are subtracting from.

$$\begin{array}{r} 9\frac{3}{10} = 8\frac{10}{10} + \frac{3}{10} = 8\frac{13}{10} \\ - 3\frac{5}{10} = \end{array}$$

**Step 3**

Subtract the fractions. Then subtract the whole numbers. Simplify.

$$\begin{array}{r} 8\frac{13}{10} \\ - 3\frac{5}{10} \\ \hline 5\frac{8}{10} = 5\frac{4}{5} \end{array}$$

Subtract. Write your answer in simplest form.

1.  $7\frac{1}{4} - 4\frac{1}{2} =$  \_\_\_\_\_

2.  $8 - 2\frac{4}{5} =$  \_\_\_\_\_

3.  $12\frac{7}{10} - 5\frac{4}{5} =$  \_\_\_\_\_

4.  $8\frac{5}{12} - 1\frac{2}{3} =$  \_\_\_\_\_

5.  $15\frac{3}{8} - 6\frac{3}{4} =$  \_\_\_\_\_

6.  $14 - 5\frac{11}{16} =$  \_\_\_\_\_

7.  $5\frac{1}{3} - 4\frac{3}{4} =$  \_\_\_\_\_

8.  $10\frac{1}{2} - 3\frac{9}{10} =$  \_\_\_\_\_

9.  $13\frac{3}{5} - 7\frac{2}{3} =$  \_\_\_\_\_

10. 
$$\begin{array}{r} 14\frac{7}{8} \\ - 5 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 35\frac{7}{8} \\ - 21\frac{1}{4} \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 9\frac{3}{10} \\ - 8\frac{7}{10} \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 17 \\ - 7\frac{4}{5} \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 11\frac{2}{3} \\ - 3\frac{2}{5} \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 46 \\ - 27\frac{1}{5} \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 99\frac{9}{10} \\ - 75\frac{3}{5} \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 16\frac{3}{8} \\ - 7\frac{3}{5} \\ \hline \end{array}$$

**Subtract Mixed Numbers**

Subtract. Write your answer in simplest form.

1.  $7\frac{15}{16} - 2\frac{11}{16} =$  \_\_\_\_\_

2.  $11\frac{4}{5} - 4\frac{3}{10} =$  \_\_\_\_\_

3.  $12 - 9\frac{1}{3} =$  \_\_\_\_\_

4.  $18\frac{1}{6} - 9\frac{5}{6} =$  \_\_\_\_\_

5.  $9 - 5\frac{1}{12} =$  \_\_\_\_\_

6.  $16\frac{1}{3} - 7\frac{7}{10} =$  \_\_\_\_\_

7.  $34\frac{11}{20} - 15 =$  \_\_\_\_\_

8.  $64\frac{3}{4} - 37\frac{11}{12} =$  \_\_\_\_\_

9.  $51\frac{2}{5} - 25\frac{3}{4} =$  \_\_\_\_\_

10.  $46 - 27\frac{3}{4} =$  \_\_\_\_\_

11.  $82\frac{4}{5} - 62 =$  \_\_\_\_\_

12.  $23\frac{1}{8} - 15\frac{2}{5} =$  \_\_\_\_\_

13.  $16 - 7\frac{11}{12} =$  \_\_\_\_\_

14.  $35\frac{7}{8} - 21\frac{1}{4} =$  \_\_\_\_\_

15.  $97 - 87\frac{4}{5} =$  \_\_\_\_\_

16. 
$$\begin{array}{r} 6\frac{11}{12} \\ - 4\frac{5}{12} \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 11\frac{2}{3} \\ - 3\frac{2}{5} \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 14\frac{7}{8} \\ - 5 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 15\frac{1}{6} \\ - 6\frac{1}{4} \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 9\frac{3}{10} \\ - 8\frac{7}{10} \\ \hline \end{array}$$

21. 
$$\begin{array}{r} 12\frac{1}{2} \\ - 3\frac{1}{5} \\ \hline \end{array}$$

22. 
$$\begin{array}{r} 44 \\ - 21\frac{13}{16} \\ \hline \end{array}$$

23. 
$$\begin{array}{r} 74\frac{3}{8} \\ - 38\frac{3}{5} \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 50\frac{1}{2} \\ - 41 \\ \hline \end{array}$$

25. 
$$\begin{array}{r} 35\frac{3}{8} \\ - 18\frac{3}{4} \\ \hline \end{array}$$

26. 
$$\begin{array}{r} 99\frac{9}{10} \\ - 75\frac{3}{5} \\ \hline \end{array}$$

27. 
$$\begin{array}{r} 23 \\ - 14\frac{5}{12} \\ \hline \end{array}$$

**Problem Solving**

Solve.

28. A grocery bag will hold 8 pounds of oranges. Kyle puts  $3\frac{5}{8}$  pounds of oranges in the bag. How many more pounds of oranges can he put in the bag?
- \_\_\_\_\_

29. Sara needs  $2\frac{1}{2}$  pounds of grapes for a salad. She buys a bag of grapes that weighs only  $1\frac{7}{8}$  pounds. How many more pounds of grapes does she need?
- \_\_\_\_\_