Adding Fractions with Unlike Denominators

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Instructions

1. Find a common denominator: the smallest number both denominators divide into.
2. Rewrite each fraction with that denominator, multiplying its top and bottom by the same number.
3. Add the numerators and keep the denominator.
4. Write the answer in lowest terms.

Example

$\frac{4}{11} + \frac{9}{10} = \mathbf{\frac{139}{110}}$

1. Rewrite using equal-sized parts.
   4/11 = (4 × 10)/(11 × 10) = 40/110
   9/10 = (9 × 11)/(10 × 11) = 99/110
2. Combine the numerators; keep the denominator.
   (40 + 99)/110 = 139/110
3. Check whether the top and the bottom share a factor. If they do, divide both by it.
   139 and 110 share only 1
4. Write the answer.
   139/110

1 $\frac{3}{11} + \frac{3}{10} =$

2 $\frac{4}{9} + \frac{3}{5} =$

3 $\frac{2}{4} + \frac{4}{12} =$

4 $\frac{1}{3} + \frac{2}{7} =$

5 $\frac{6}{7} + \frac{1}{5} =$

6 $\frac{1}{2} + \frac{7}{9} =$

7 $\frac{7}{10} + \frac{1}{2} =$

8 $\frac{3}{5} + \frac{1}{2} =$

9 $\frac{4}{8} + \frac{8}{12} =$

10 $\frac{4}{7} + \frac{6}{10} =$

11 $\frac{1}{7} + \frac{2}{3} =$

12 $\frac{2}{7} + \frac{8}{12} =$

13 $\frac{6}{7} + \frac{1}{2} =$

14 $\frac{2}{5} + \frac{8}{10} =$

15 $\frac{6}{7} + \frac{2}{4} =$