

Rewrite Fractions with Common Denominators

You can find a common denominator of two fractions.

A **common denominator** of two fractions is a common multiple of their denominators.

Find a common denominator of $\frac{1}{6}$ and $\frac{7}{10}$. Rewrite the pair of fractions using a common denominator.

Step 1 Identify the denominators.

The denominators are 6 and 10.

Step 2 List the multiples of the greater denominator, 10.

Multiples of 10: 10, 20, 30, 40, 50, 60, ...

Step 3 Check if any of the multiples of the greater denominator are evenly divisible by the other denominator.

Both 30 and 60 are evenly divisible by 6.

Common denominators of $\frac{1}{6}$ and $\frac{7}{10}$ are 30 and 60.

Step 4 Rewrite the fractions with a denominator of 30.

Multiply the numerator and the denominator of each fraction by the same number so that the denominator results in 30.

$$\frac{1}{6} = \frac{1 \times 5}{6 \times 5} = \frac{5}{30} \quad \frac{7}{10} = \frac{7 \times 3}{10 \times 3} = \frac{21}{30}$$

Use a common denominator to write an equivalent fraction for each fraction.

1 $\frac{5}{12}, \frac{2}{9}$

common denominator: _____

2 $\frac{3}{8}, \frac{5}{6}$

common denominator: _____

3 $\frac{2}{9}, \frac{1}{6}$

common denominator: _____

4 $\frac{3}{4}, \frac{9}{10}$

common denominator: _____
