

Add and Subtract Fractions with Different Denominators

Warmup: Answer the warmup questions **before** watching the video solutions.

1. Determine if each number is an Improper Fraction or a Proper Fraction.

$$\frac{45}{12}$$

$$\frac{5}{24}$$

$$\frac{7}{3}$$

2. Calculate:

$$\frac{4}{18} + \frac{11}{18} = -$$

3. Calculate the difference: $71\frac{2}{7} - 65\frac{3}{7} = -$

4. Reduce $\frac{15}{65}$ using the GCF.

I. Addition and Subtraction of Fractions with Different Denominators

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
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$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
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$$\frac{1}{6} + \frac{3}{12} =$$

$\frac{1}{12}$	$\frac{1}{6}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
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Addition and Subtraction of Fractions: To add or subtract fractions the denominators **MUST** be the same.

$$\frac{1}{6} + \frac{3}{12} =$$

1. Rewrite the fraction(s) with a common denominator.

$$\frac{1}{6} = \frac{2}{12} \quad (\text{Use the LCM})$$

$$\frac{2}{12} + \frac{3}{12} = \frac{5}{12}$$

2. Add or subtract the numerators and keep the denominator.

$$\frac{5}{18} + \frac{3}{9} = -$$

$$14\frac{2}{9} + 10\frac{7}{18} = -$$

5. $\frac{7}{11} + \frac{3}{8} = -$

6. $\frac{15}{16} - \frac{2}{3} = -$

7. $38\frac{4}{7} - 1\frac{7}{10} = -$

8. $23\frac{10}{17} - 15\frac{4}{13} =$