

Adding Fractions (6-3)

Adding & Subtracting Fractions	
Step 1	Find the <u>LCD</u> and rewrite the fractions.
Step 2	<u>add</u> or <u>subtract</u> the fractions.
Step 3	<u>simplify</u> as needed.

Example 1: Add the fractions.

I Do	You Do
$\frac{3}{14} + \frac{6 \cdot 2}{7 \cdot 2}$ $\frac{3}{14} + \frac{12}{14} = \frac{15}{14}$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $\frac{1}{14}$ </div>	$\frac{4 \cdot 9}{5 \cdot 9} + \frac{4 \cdot 5}{9 \cdot 5}$ $\frac{36}{45} + \frac{20}{45} = \frac{56}{45}$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $\frac{11}{45}$ </div>

$$\frac{56}{45}$$

$$11$$

Example 2: Subtract the fractions.

16, 32, 48

$\frac{16}{3 \cdot 48}$

I Do	You Do
$\frac{17}{21} - \frac{3 \cdot 3}{7 \cdot 3} = \frac{8}{21}$	$\frac{11 \cdot 4}{12 \cdot 4} - \frac{3 \cdot 3}{16 \cdot 3} = \frac{35}{48}$

Example 3: Apply your knowledge of fractions.

I Do	You Do
<p>You have $\frac{7}{10}$ inches of red string. If you have $\frac{5}{6}$ inches of yellow string, how much string do you have altogether?</p> $\frac{7 \cdot 3}{10 \cdot 3} + \frac{5 \cdot 5}{6 \cdot 5}$ $\frac{21}{30} + \frac{25}{30} = \frac{46}{30}$ $\frac{16}{30} \div 2$	<p>You have a super rope of licorice that is $\frac{11}{12}$ feet long. If you eat $\frac{5}{6}$ feet of it, how much will you have left?</p> $\frac{11}{12} - \frac{5 \cdot 2}{6 \cdot 2}$ $\frac{11}{12} - \frac{10}{12} = \frac{1}{12} \text{ feet}$

$\frac{18}{15}$ inches