Math Chapter 2 Study Guide	
Least Common Denominator	Unlike fractions are fractions with different denominators. You can add and subtract unlike fractions with the help of fraction bars.
	A benchmark is a reference point on a number line that is useful for rounding fractions.
Adding and Subtracting Fractions	Step 1 $\frac{5}{6} = \frac{5 \times 9}{6 \times 9} = \frac{45}{54}$ Multiply 6 and 9 to find a common denominator, 54. Use the common denominator to write equivalent fractions.
To add or subtract unlike fractions without using models, find equivalent fractions. Equivalent fractions can be written by using a common denominator or the least common denominator (LCD). The LCD is the least common multiple (LCM) of two or more denominators.	Step 1 $\frac{5}{6} = \frac{5 \times 9}{6 \times 9} = \frac{45}{54}$ Multiply 6 and 9 to find a common denominator, 54. Use the common denominator to write equivalent fractions.
Step 1 $\frac{5}{6} = \frac{5 \times 9}{6 \times 9} = \frac{45}{54}$ Multiply 6 and 9 to find a common denominator, $+ \frac{4}{9} = \frac{4 \times 6}{9 \times 6} = + \frac{24}{54}$ Multiply 6 and 9 to find a common denominator, $54. \text{ Use the common denominator to write equivalent fractions.}$	Step 2 $\frac{\frac{5}{6}}{6} = \frac{\frac{45}{54}}{\frac{54}{54}}$ Add the numerators. Write the sum over the denominator. $\frac{\frac{69}{54}}{\frac{69}{54}}$ or $1\frac{5}{18}$ Write the answer as a fraction or as a mixed number.
Adding and Subtracting Mixed Numbers	Add. $3\frac{2}{3} + 2\frac{3}{4}$ $3\frac{2}{3} = 3\frac{8}{12}$ $+ 2\frac{3}{4} = 2\frac{9}{12}$ Write equivalent fractions, using the LCD, 12. Add fractions. Add whole numbers. Rename the fraction as a mixed number. Rewrite the sum.

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	Estimate. $4\frac{4}{5}$ is close to 5, and $2\frac{1}{4}$ is close to 2. So, the difference is about 3. $4\frac{4}{5} = 4\frac{16}{20}$ Write equivalent fractions using the LCD, 20. $-2\frac{1}{4} = -2\frac{5}{20}$ Subtract fractions. $2\frac{11}{20}$ Subtract whole numbers.
Subtraction of Fractions with Renaming	Step 1 $8\frac{1}{3} = 8\frac{4}{12} \text{The LCD of } \frac{1}{3} \text{ and } \frac{7}{12}$ $-4\frac{7}{12} = -4\frac{7}{12} \text{is 12. Write equivalent fractions using the LCD.}$
In the example, borrow 1 from the 8. Then add 12 to the 4 (numerator). That gives you 16. Why? Because 12/12 = 1. Remember you borrowed 1 from the 8. Now subtract 7 from 16.	Step 2 $8\frac{1}{3} = 8\frac{4}{12} = 7\frac{16}{12}$ $-4\frac{7}{12} = -4\frac{7}{12} = -4\frac{7}{12}$ $3\frac{9}{12}$, or $3\frac{3}{4}$ Subtract, and then simplify.