Summary of Fraction Rules

TOPIC	RULE
Adding or subtracting	First find the lowest common denominator.
fractions that are not	Second rewrite all fractions using the LCD. Be sure to
mixed numbers	multiply both numerators and denominators by the
	same quantities.
(LCD REQUIRED)	Add/subtract the numerators and carry along the least
	common denominator.
	Reduce the answer, if possible.
Multiplying fractions	Prime factor the numerators and denominators of each
that are not mixed	fraction.
numbers	Divide out any common factors.
	Multiply the remaining factors in the numerators to obtain
(LCD NOT REQUIRED)	the numerator of the answer.
	Multiply the remaining factors in the denominators to
	obtain the denominator of the answer.
Dividing fractions that	Leave the first fraction unchanged.
are not mixed numbers	Change the division symbol to a multiplication symbol.
	Invert the second fraction. If the second fraction is a
(LCD NOT REQUIRED)	mixed number, change it to an improper fraction first
	and then invert.
	Follow the multiplication rules to find the answer.
Multiplying mixed	Change all mixed numbers to improper fractions and
	then follow the rules for multiplying fractions.
(LCD NOT REQUIRED)	Change all mixed as the improved free time and
	Change all mixed numbers to improper fractions and
(LCD NOT REQUIRED)	then follow the rules for dividing fractions.
Adding mixed numbers	fractions, and then follow the rule for adding
	fractions, and then follow the fulle for adding
	Method 2: Add the whole number parts, and then add
	the proper fraction parts, gotting a LCD if peeded. If
	the answer contains an improper fraction, convert to
	a mixed number. Reduce answer if needed
Subtracting mixed	Method 1: Change all mixed numbers to improper
numbers	fractions, and then follow the rule for subtracting
	fractions. Reduce answer if needed
	Method 2. Subtract the whole number parts and then
	subtract the proper fraction parts, getting a LCD if
	needed. Use borrowing if the second fraction is
	larger than the first. Reduce answer if needed.