Name:

Math Study Guide

Unit 5: Fractions, Decimals, Percents

WORD	DEFINITION		
Fraction	A fraction includes a numerator and denominator; we can think of a fraction as equal parts of a whole		
Mixed Number	A mixed number is a whole number with a fraction; for example 3 $\frac{5}{8}$ or 42 $\frac{16}{21}$		
Improper Fraction	A fraction where the numerator is greater than the denominator; a fraction where the number of equal parts is more than a whole		
Whole Number	Just a single number; for example: 23, 58, 2, 899, 44, 13		
Simplify (or reduce)	To make smaller; you can simplify a fraction by dividing the numerator and denominator by a common factor		
Simplest Form	When a fraction can no longer be reduced; this happens when there is no common factor for the numerator and denominator		
Numerator	The top part of a fraction		
Denominator	The bottom part of a fraction		
Convert	To change from one form to another; for example, converting from a fraction to decimal or converting from decimal to percent		
Greatest Common Factor	The largest factor for a pair or set of numbers; for example, the GCF for 12, 18, and 24 = 6.		
Lowest Common Multiple	The smallest multiple for a pair or set of numbers; for example, the LCM for 6, 12, and 3 = 12		
Equivalent	Equal to or the same		
Common Denominator	When fractions have the same number as their denominator; common denominators make it easy to compare fractions		

FRACTIONS, DECIMALS, & PERCENTS TO MEMORIZE!

Halves

Fraction	Decimal	Percent		
1/2	0.5	50%		
16 ½	16.5	Х		

Thirds

Fraction	Decimal	Percent
1/3	0.3333	About 33%
2/3	0.6666	About 67%

Fourths

Fraction	Decimal	Percent
1/4	0.25	25%
2/4	0.5	50%
3/4	0.75	75%

Fifths

Fraction	Decimal	Percent
1/5	0.2	20%
2/5	0.4	40%
3/5	0.6	60%
4/5	0.8	80%

Hundredths (Convert to hundredths place value)

Fraction	Decimal	Percent
1/100	0.01	1%
23/100	0.23	23%
93/100	0.93	93%

Tenths				
1/10	=	0.1	=	10%
2/10	=	0.2	=	20%
3/10	=	0.3	=	30%
4/10	=	0.4	=	40%
5/10	=	0.5	=	50%
6/10	=	0.6	=	60%
7/10	=	0.7	=	70%
8/10	=	0.8	=	80%
9/10	=	0.9	=	90%
10/10	=	1.0	=	100%