PRISM GREEN (UPGRADE) REFERENCE NOTES (add your own notes if you want)

+ 1 2 3 4 5 6	7 8 9 10	Х	1 2	3 4 5	678	9 10	
1 2 3 4 5 6 7	8 9 10 11	1	1 2	3 4 5	6 7 8	9 10	
	9 10 11 12		2 4	6 8 10 9 12 15	12 14 16 1	18 20	
	10 11 12 13	4	3 0 4 8	12 16 20	24 28 32 3	36 40	
5 6 7 8 9 10 11 1	12 13 14 15	5	5 10	15 20 25	30 35 40 4	15 50	
6 7 8 9 10 11 12 1	13 14 15 16	6	6 12	18 24 30	36 42 48 5	54 60	
7 8 9 10 11 12 13 1	14 15 16 17	7	7 14	21 28 35	42 49 56 6	63 70	
8 9 10 11 12 13 14 1	15 16 17 18	8	8 16	24 32 40	48 56 64	72 80	
	10 17 18 19 20	9	9 18 10 20	27 36 45	54 63 72 8	37 90 30 100	
FRACTIONS Common Multiples and I CM							
Proper Fractions. Means the numerator is less than the denominator. Ex: 1/6							
Improper Fraction. Means the numerator is <i>more</i> than the denominator. Ex: $3/2$ 6: 6 12 18 24 30 36						36	
(three halves of a pizza) The LCM of 4					f 4 and 6 is 1 2	50	
Mixed fraction (carpenter's fractions). Use whole numbers mixed with a proper					Reduce fraction to lowest terms		
fraction. <i>Ex:</i> one pizza and another half pizza <i>or</i> one and a half pizzas, <i>or</i> 1½ pizzas. means to make the numerator and							
Adding and Subtracting Fractions. Must have the same denominator. Find a LCM of denominator as low as possible							
the denominators (also called a Lowest Common Denominator) and make equivalent					without changing their proportion.		
tractions of the same denominator.					Just keep dividing top and bottom		
Ex1: $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ Ex2: $\frac{1}{2} + \frac{2}{4} = \frac{7}{24} + \frac{6}{24} = \frac{13}{24}$				by prime numbers.			
2 4 4 4 4 5 / 21 21 Multiplying Fractions Multiply pumerators together for paw pumerator, multiply				Ex: 1:	Ex: 1: $\frac{12}{2} = \frac{6}{2} = \frac{3}{2}$		
denominators together for new denominator					16 8 4		
r = 1 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 +				Ex 2: $\frac{30}{2}$	Ex 2: $\frac{30}{15} = \frac{15}{5} = \frac{5}{15} = \frac{1}{15}$		
Ex1: $\frac{1}{2} * \frac{1}{4} = \frac{1}{2 * 4} = \frac{1}{8}$ One half of three-quarters of a pizza is three-eighths of a pizza				60	30 10 2		
				Divide top	Divide top / bottom by 2, then 3, then		
5. The GCF is 2*3*5 is 30							
Reciprocals. The reciprocal of a number means that number divided into one, <i>flipped</i> . Number Reciprocal If seven people share 1 one thing, they each get $1/7^{th}$ of the thing. A number multiplied							
In seven people share 1 one uning, they each get 177 of the uning. A number multiplied				21	$\frac{0}{21}$ $\frac{1}{21}$		
by its reciprocal is just one. $7* \stackrel{-}{=} \stackrel{-}{=} \stackrel{-}{*} \stackrel{-}{=} \stackrel{-}{=} 1$				7	1/21		
Dividing By Fractions. Just multiply by a reciprocal. $\begin{pmatrix} 1 \\ 3 \end{pmatrix}$ 1 $\begin{pmatrix} 2 \\ 1 \\ 3 \end{pmatrix}$ 3 1 Dividing something by one half means							
$\frac{(2)}{\binom{2}{2}} = \frac{1}{3} \div \frac{1}{3} = \frac{1}{3} \div \frac{1}{2} = \frac{1}{6} = \frac{1}{2}$				really multip	really multiplying the something by two!		
$ (3) \qquad \qquad$							
Fractions to Decimals. Just convert to 10^{ths} or 100^{ths} or $1,000^{\text{ths}}$ using ratios or just use 0.6							
a calculator or else use long division.				$\frac{3}{2} = 3 \div 5 = 5$	$\frac{3}{5} = 3 \div 5 = 5)3.0$		
\mathbf{F}_{-1} , 3 , 6 , $\frac{0.6}{5}$, \mathbf{F}_{-2} , 1 , 125							
EX1: $\frac{5}{5} = \frac{5}{10} = 10 6 = 0.6$ EX2: $\frac{1}{8} = \frac{120}{1000} = 0.125$							
Decimals to Fractions.				A good calculator will actually do the			
Ex: 0.25 'means' $25/100$ ths and then reduce to lowest terms: $25 5 1$				conversion for you if you are desperate.			
$\frac{1}{100} = \frac{1}{20} = \frac{1}{4}$						-	
Percent (%). Just French for ' <i>per hundred</i>	<i>l'</i> . 65% means 65/100, <i>that</i>	is all.		Percent	Decimal	Fraction	
Percent to decimal : divide by 100, <i>or</i> mov	e decimal point 2 places left	•		<u>%</u>	0.055	2/0	
<i>Ex1</i> : $75\% \equiv \frac{75}{100} = 0.75$ <i>Ex2</i> : 2.35% means 0.0235			37.5%	0.375	3/8		
100 Decimal to Persont Multiply by 100% or move decimal point two places right			<u> </u>	0.025	1/2		
Ex1: $0.025 *100\% = 2.5\%$ Ex2: $0.625*100\% = 62.5\%$			2.3%	1.023	1/40		
METRIC SYSTEM AND CONVERSION							
Mega [M] Millions of METRIC LENGTH or MASS or VOLUME Examples							
Kilo [k] Thousand of	km or kg m or g cm o	1,000 mm	1,000 mm = 1 L				
Deca [d] Tens of	or kL or L or	200 mm =	200 mm = 20 cm				
Centi [c] Hundred <i>ths</i> of	0.001 1 10	35 mm = 3	35 mm = 3.5 cm				
Milli [m] Thousand <i>ths</i> of		∪ 2, 00 10	000	5.2 g = 5,200 mg			
	1 1,000 100.0	000 1.00	00,000	4500 L = 4.5 kL			
		,		523 g = 0.523 kg 1 224 m = 1 224 lm			
	5 5,000 500.	000 5'	*10°	1 124	1 124 1		

