Unit 1: Rational Numbers and Exponents **Name: _____**
UNIT GUIDE and TICKET OUT

	Concept/Skill	Self Tracking	Practice Problems
1	**Course Introduction** **Review of Integers Operations / Order of Operations**	P.18 [#1, 3, 5] (odd parts) P.19 #1-8 (odd parts) P.20 #1, 2 (odd parts)	
2	**Substitution and Pythagorean Theorem**	p.23 #1-4 (odd parts), 5-8 P.25 #1-3 p.27 #2, 3, 5, 7 *Note: Base Measurement 25m,* *P.27 #5*	
3	**Review of Fractions and Getting Started** Simplify the following (no calculator) a) $5\frac{2}{3}+\frac{3}{18}$ b) $\frac{8}{49}\times\frac{7}{16}$ c) $\frac{13}{144}\div\frac{26}{12}$	◦ I'm an expert ◦ I need a bit more practice ◦ I will get extra help	P.14 #1-8 (odd parts) P.181 #1-6, 8, 9
4	**Rational numbers** a) Write the following as a decimal and indicate whether it repeats. If it does, state the period. $\frac{56}{168}$ b) Covert the following to a fraction in lowest terms -2.179	◦ I'm an expert ◦ I need a bit more practice ◦ I will get extra help	P.186-187 #3, 4, 6, 9, 10
5	**Addition and Subtraction of Rational Numbers** a) $-\left(\frac{-3}{7}\right)+\frac{11}{56}$ b) $5\frac{2}{3}-\left(\frac{-7}{-8}\right)+\left(2\frac{2}{7}\right)$	◦ I'm an expert ◦ I need a bit more practice ◦ I will get extra help	Worksheet RN 1 #1-6
6	**Review / Quiz**		
7	**Multiplication and Division of Rational Numbers** a) $\frac{4}{5}\times\left[\frac{3}{8}+\left(\frac{-5}{4}\right)\right]$ b) $\frac{-6}{7}\div\left[\frac{3}{4}\times\left(\frac{-15}{7}\right)\right]$	◦ I'm an expert ◦ I need a bit more practice ◦ I will get extra help	Worksheet RN 2 #1-5
8	**Order of Operations and Substitution** a) $1\frac{3}{4}\times\left(\frac{1}{4}\right)+(-3)\div\left(\frac{-3}{4}\right)$ b) $\left[\frac{9}{7}+\left(2\frac{1}{-3}\right)\right]\div\left(\frac{-2}{7}\right)$	◦ I'm an expert ◦ I need a bit more practice ◦ I will get extra help	P.193, 194 #1-6, 11

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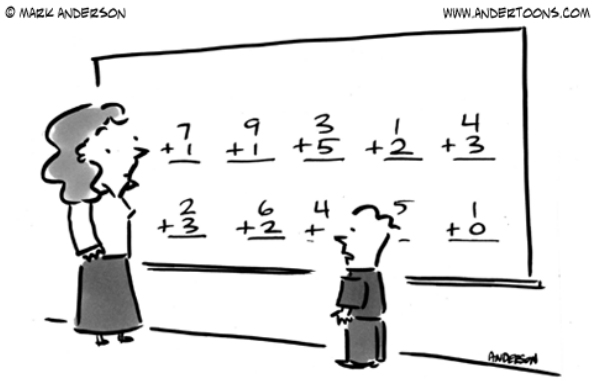
9	**Working with Powers**	P.211-212 #4, 10 P.217-218 #2, 3abcghi, 5a-f, n-q, 6ab, e-h	
10	**Powers with Rational Bases** a) $-\left(\frac{2}{3}\right)^4$ b) $-\left(\frac{-2}{5}\right)^3$	◦ I'm an expert ◦ I need a bit more practice ◦ I will get extra help	P.223, 224 #3abfg, 4abc p.219 #12f, 14ac Worksheet W/S BB-8
11	**Exponent Laws – Investigation Lesson**	P.229-231 #1-4, 5ag, 6abc, 7ab, 8aimnp, 9abeh, 10ac, 11ce, 15, 16, 17, 18aceh, 19	
12	**Communication Assignment / Open notebook**		
13	**Review**	P.235-246 #1, 3, 8, 9, 10a-d, g-j, 11d, 14, 18agh, 19ace, 20a-c, 21 P.247 #1, 2, 3acefg	
14	**TEST**	Study Notes and Review Questions Due!	



"All I'm saying is we plug these into Excel, let it do its thing, and then we can all play until lunch!"

Class Website: http://greerwci.weebly.com

Go to this website to print off lessons for the unit.
If you loose any handouts – you can also get them from this site.

Most of this unit will be done WITHOUT the use of a calculator.
Brush up on your multiplication and division skills!