**Section 1.1 Patterns and Expressions**

Key Definitions Definition Example

Variable a symbol used to represent a number x

Numerical Expression math phrase with numbers and operations 2+3

Algebraic Expression math phrase that has variables 5x+7

Work problems on their own or in groups.

**Page 7 #1-2, 5, 8-11**

**Section 1.2 Properties of Real Numbers**

Term Definition Example

Whole Number “Counting Numbers” Always + 0, 1, 2, 3…

Integers Whole Numbers and their opposites …-2,-1,0,1,2…

Rational Numbers Any number that can be written as the ½, -2/3, 5/7, 6, -2  
 ratio of 2 integers (terminate or repeats)

Irrational Numbers Not Rational (doesn’t terminate or repeat) pi, sqrt(2), e

Properties of Real Numbers

Property Addition Multiplication

Commutative a+b=b+a ab=ba

Associative (a+b)+c=a+(b+c) (ab)c=a(bc)

Identity a+0=a 0 is additive ID a\*1=a 1 is mult ID

Inverse a+(-a)=0 a\*(1/a)=1

Distributive a(b+c)=ab+ac

**HMWK: Honors/Regular pg 15 #1-5, 8-12, 13-27 (odd), 35-40**