

## MTH1W1—Unit 1 Numbers

### 1.1 The Number System

**Learning Goal:** *I am learning to classify numbers.*

Numbers can be classified in many ways. The way that we classify them is under a “number system.”

**Natural Numbers:** counting numbers, positive numbers with no decimal

$$\mathbb{N} = \{1, 2, 3, \dots\}$$

**Whole Numbers:** positive numbers with no decimal, and zero

$$\mathbb{W} = \{0, 1, 2, 3, \dots\}$$

\*all natural numbers are whole numbers

**Integers:** positive and negative whole numbers

$$\mathbb{I} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$$

\*all natural and whole numbers are integers

**Rational Numbers,  $\mathbb{Q}$**  →

- in decimal form: repeating (0.666...) or terminating (1.65)

- in fraction form: written as a ratio of two integers  $\frac{a}{b}$ ,  $a$  and  $b$  are integers and “ $b$ ” cannot be 0.

$$\text{(ex. } 1\frac{1}{3}, \frac{-5}{n}, \frac{-1}{-n}, \frac{-2}{-3}, 2\frac{1}{2}\text{)}$$

\*all natural, whole and integers are rational

**Irrational Numbers:** Numbers that cannot be written as the ratio of two integers are irrational numbers,  $\overline{\mathbb{Q}}$ . They are non-repeating or non-terminating decimals. eg.  $\pi$ ,  $\sqrt{7}$

$\mathbb{Q} \cup \overline{\mathbb{Q}} = \mathbb{R}$  all rational and irrational numbers together make up the real numbers

# Grade 9 Numbers Unit Lesson Plans

**Margaret Morrison Carnegie College  
(Pittsburgh, Pa.)**

## **Grade 9 Numbers Unit Lesson Plans:**

**Resources in Education** ,1985     *Tentative Course of Study in Mathematics for Indiana School, Grades [one to Nine]*  
Indiana. Department of Public Instruction,1930     **The Classroom Teacher** Milo Burdette Hillegas,Thomas Henry  
Briggs,1929     Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant ,     **Arithmetic for  
First [to Sixth] Grades** Oakland (Calif.). Board of Education,1928     Arithmetic for Third and Fourth Grades ... Oakland  
(Calif.). Board of Education,1928     The Educator-journal ,1914     **Margaret Morrison Carnegie College Catalogue**  
Margaret Morrison Carnegie College (Pittsburgh, Pa.),1927     **Elementary School Course of Study** Cleveland Heights  
(Ohio). Board of Education,1930     **Nebraska Educational Journal** ,1925     **Research in Education** ,1971  
*Contributions to Education* ,1929     *The Nebraska Educational Journal* ,1925     **Bulletin** ,1918     **Normal  
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Organization for the High Schools of Ohio** Ohio. Department of Education,1929     **Journal of the Florida Education  
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