

Name: _____

Algebra 1 Review: Packet #1

Topic #1: The Real Number System

THE REAL NUMBERS (\mathbb{R}): All rational and irrationalIRRATIONAL NUMBERS (\mathbb{I}): π , $\sqrt{17}$, $-\sqrt{43}$ RATIONAL NUMBERS (\mathbb{Q}): $1\frac{1}{2}$, $0.\overline{6}$, -4.5 , $\frac{7}{9}$ INTEGERS (\mathbb{Z}): $\dots, -3, -2, -1, 0, 1, 2, 3, \dots$ WHOLE NUMBERS (\mathbb{W}): $0, 1, 2, 3, \dots$ NATURAL NUMBERS (\mathbb{N}): $1, 2, 3, 4, \dots$

Name all sets to which each number belongs.

1. $\frac{2}{3}$ $\mathbb{R} \mathbb{Q}$

2. $-\sqrt{50}$ $\mathbb{R} \mathbb{I}$

3. 0 $\mathbb{R} \mathbb{Q} \mathbb{Z} \mathbb{W}$

4. $|-9-4|$ $\mathbb{R} \mathbb{Q} \mathbb{Z} \mathbb{W} \mathbb{N}$

5. $\frac{-28}{7}$ $\mathbb{R} \mathbb{Q} \mathbb{Z}$

6. $\frac{\pi}{\pi}$ $\mathbb{R} \mathbb{Q} \mathbb{Z} \mathbb{W} \mathbb{N}$

Topic #2: Properties

Give two examples of each property.

COMMUTATIVE:

- $a + b = b + a$
- $a \cdot b = b \cdot a$

ASSOCIATIVE:

- $(a + b) + c = a + (b + c)$
- $(a \cdot b) \cdot c = a \cdot (b \cdot c)$

IDENTITY:

- $a + 0 = a$
- $a \cdot 1 = a$

INVERSE:

- $a + (-a) = 0$
- $a \cdot \frac{1}{a} = 1$

ZERO PRODUCT:

- $a \cdot 0 = 0$
- $(x^2 + 1) \cdot 0 = 0$

DISTRIBUTIVE:

- $a(b + c) = ab + ac$
- $-7(x + 3) = -7x - 21$

REFLEXIVE:

- $a = a$
- $17y = 17y$

SYMMETRIC:

- If $a = b$, then $b = a$.
- If $3x = 15$, then $15 = 3x$

TRANSITIVE:

- If $a = b$ and $b = c$, then $a = c$.
- If $\sqrt{49} = 7$ and $7 = 6 + 1$, then $\sqrt{49} = 6 + 1$.

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Annelies Wilder-Smith



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