

Standards-Based Assessment + Instruction

Preliminary Planning Sheet

Grade 5 - The Number Game

Domain(s)

Number and Operations in Base Ten

Standard(s) 5.NBT.A.1

Mathematical Practices

MP.1 MP.3 MP.4 MP.6

Major Underlying Mathematical Concepts

- Base-10 place value system
- Decimal notation

Problem Solving Strategies

- Model (manipulatives)
- Diagram/Key
- Table
- Number line

Formal Mathematical Language and Symbolic Notation

- Model
- Diagram/Key
- Table
- Number line
- Multiplication
- Division
- Ones, tens, hundreds, thousands, tenths
- Decimal notation (422.3)

- Place value
- Numbers
- Digit
- Sum/Total/Product/Quotient
- Greater than (>)/Less than (<)
- Equivalent/Equal to
- Fractions 1/10, 50/10...

Possible Solution(s)

- 1). 631.3 and 422.3
- 2). 631.3
- 3). 4,164 and 4,115
- 4). 4,164

Clue	Numbers	100	$1 \times \frac{1}{3} = .3$	5	
Α	631.3	<u>× .6</u>	$100 \times .6 = 60$	10 50 - 50	
А	422.3	60.0	$N \times .10 = N \div 10$	<u>- 30</u> 0	
В	631.3		So $50 \times .10 = \frac{50}{10}$	U	
С	4164.0		30 30 X . 10 - 710		
D	4164.0				
D	4115.0		$10 \times 100 = \frac{1}{10} \times 1000 \text{ or } 1000 \div 10$		
			$10 \times 10 = \frac{1}{10} \times 100 \text{ or } 100 \div 10$		

Possible Connections

Below are some examples of mathematical connections. Your students may discover some that are not on this list.

- The number 4,164, is closest to zero.
- The number 422.3, is farthest from zero.
- The difference between the largest and smallest number is 3,741.7.
- The total of all 4 numbers is 9,332.6.
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.
- 10 times 631.3 would be 6,313.
- 1/10 of 4,164 would be 416.4.
- 4,164 > 4,115.
- 422.3 < 631.3.
- 631.3 = 631 3/10