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Discussion2

1). If we have a set N= {6, 4, 8, 10} and P= {10, 4, 6, 8, 8}. Is N=P?

- If we have a set N= {6, 4, 8, 10} and P= {10, 4, 6, 8, 8}, N is not equal to P because they have different elements.

2). What is differences between real and rational numbers?

- Real numbers include all rational numbers, but also include irrational numbers, which cannot be expressed as a ratio of two integers. Rational numbers are numbers that can be expressed as a ratio of two integers.

3). If we have a set L={d,b,p,p} and Q={p,d,d,c,p}. Is L subset Q?

- If we have a set L={d, b, p, p} and Q={p, d, d, c, p}, L is a subset of Q because all elements of L are also present in Q.

4). What is cardinality of "A={x ⍰ ℕ+ | x < 168}"?

- The cardinality of set A is 167 because it contains all natural numbers less than 168.

5). What is cardinality of "B={e,{e,e},{e,a,e},c,{c,e,c,e}}"? Power?

- The cardinality of set B is 4 because it contains our distinct elements: e, e, e, e, a, e, and c.

6). If we have a set A ={1,3,5} and B ={9,6,3,1}. What is "A union

B"? "A intersection B"? "A difference B"?

- If we have a set A ={1, 3, 5} and B ={9, 6, 3, 1}

   - A union B = 1, 3, 5, 6, 9

   - A intersection B = 1, 3

   - A difference B = 5

7). Find $(A \cap B) \cup (B \cap C)$

A	B	C	$(A \cap B)$	$(B \cap C)$	$(A \cap B) \cup (B \cap C)$
0	0	0	0	0	0
0	0	1	0	0	0
0	1	0	0	0	0
0	1	1	0	1	1
1	0	0	0	0	0
1	0	1	0	0	0
1	1	0	1	0	1
1	1	1	1	1	1