

CLASSIFYING REAL NUMBERS

1. natural numbers: the set of all positive counting numbers (on a number line) starting with 1

ex: 8, 2, 82, 3, 100

2. whole numbers: the set of positive numbers starting with 0

ex: 0, 7, 11, 20

3. integers: the set of whole numbers and their opposites

ex: -12, -14, -107, 107

4. rational numbers: numbers that can be written as fractions, terminating decimals, repeating decimals, and square roots of perfect squares

ex: 48, 225, .187 repeated, the square root of 100

5. Irrational numbers. numbers that can not be written as fractions, nonterminating decimals, non-repeating decimals and square roots of non-perfect squares

ex: the square root of 27, 60.66382..., π , 3879...

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