No talking try it on your own

Warm Up

BEDMAS

Solve Each of The Following In Your Notebooks

1) $3 + 7(10-6) - 2 =$

$3+7(4)-2$

$3+28-2$

29

2) $10 \times 5 + 3(12-3) =$

$10 \times 5 + 3(9)$

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Chuck Norris of Numbers

THE NUMBER SYSTEM

π

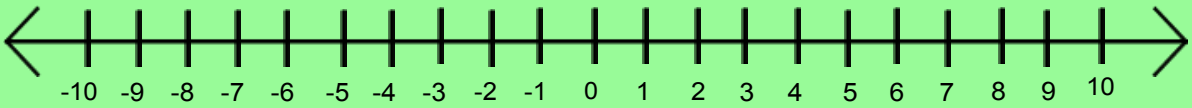
$\frac{1}{8}$

$\sqrt{7}$

0

$0.3333333\ldots$

1, 2, 3, 4, 5, 6...



Number systems

Natural Numbers		N
Whole Numbers		W
Integers		I
Rational		Q
Irrational	$\pi = 3.14$	$\overline{Q}$
Real	$\sqrt{5}$	R

THE NUMBER SYSTEM

W =	Whole Numbers	I =	Integers
$\overline{Q}$ =	Irrational Numbers	R =	Real Numbers
N =	Natural Numbers	Q =	Rational Numbers

EXAMPLES:

W: 0, 1, 2, 3, ...

$\overline{Q}$: π (3.141592...), $\sqrt{3}$, 1.23456738... , $\sqrt{15}$, ...

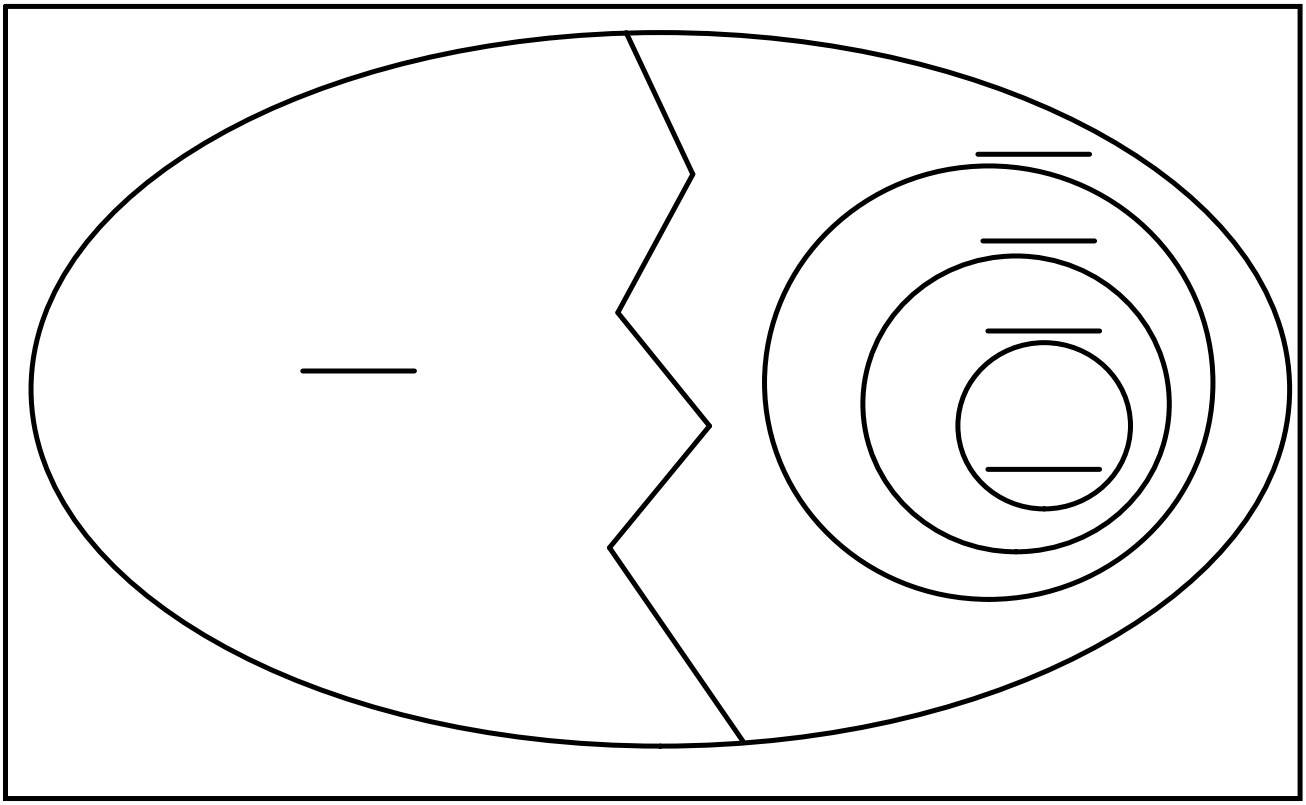
N: 1, 2, 3, ...

I: .....-3, -2, -1, 0, 1, 2, 3, ...

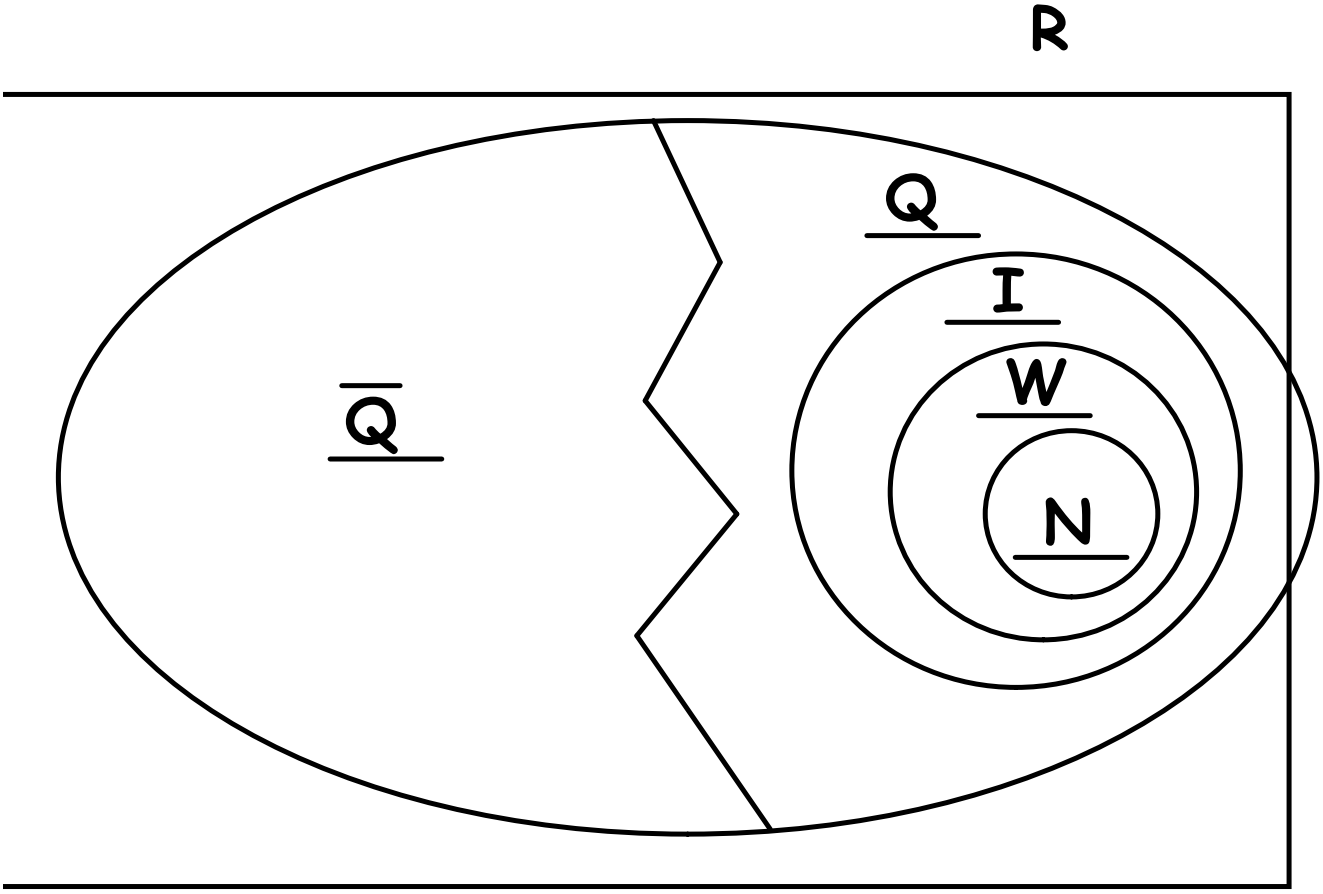
R: $-\frac{1}{2}$, $\sqrt{15}$, 0 , -3 , 3 , π (3.141592) , ...

Q: $\frac{1}{2}$, $-\frac{1}{2}$, $\frac{11}{3}$, 0.2 , -0.2 , 3 , -3 , 0 , ...

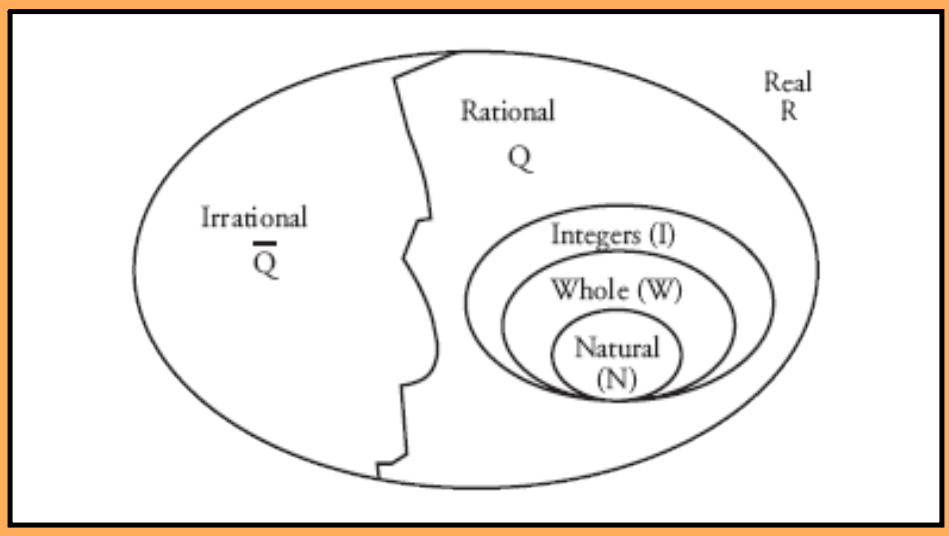
TITLE: _____



TITLE: _____



Review of Types of Number Systems



THE NUMBER SYSTEM

Natural Numbers : All positive non-zero numbers
Counting numbers Ex. 1, 2, 3 etc

Whole Numbers: Counting numbers including zero.
Ex. 0, 1, 2, 3, etc

Integers: Are all positive and negative whole numbers.
(Remember zero is neither negative or positive)
Ex: ....3,2,1,0,-1-2,-3...

Rational Numbers: All whole numbers, fractions, mixed numbers, decimals and their negatives
The decimal must repeat or terminate also.
Ex: 1/3, 4, 3/4

Irrational Numbers: Decimals that never terminate or repeat.
Ex: $\sqrt{2}$, π

Real Numbers: All rational and irrational numbers are real numbers
Ex: All possible numbers

$A = \pi r^2$

$C = 2\pi r$

1:2

Exercise

Complete the table

	N	W	I	Q	$\overline{Q}$	R
5	✓	✓	✓	✓		✓
-2			✓	✓		✓
$\frac{3}{4}$				✓		✓
-1.3				✓		✓
$\sqrt{7}$					✓	✓
$\sqrt{25}$					✓	✓