



**Solve Each of The Following In Your Notebooks** 

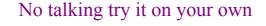
No talking try it on your own















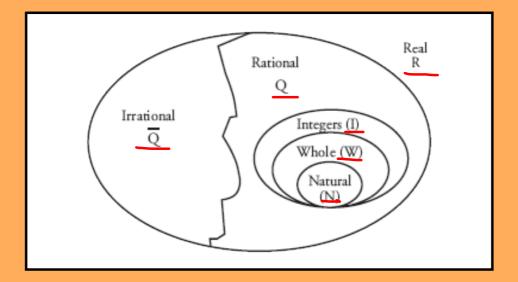


12 - 
$$2(4+1)^2 + 8 \times 5 + 36 \times 18$$

$$12 - 50 + 40 + 2$$
 $-38 + 40 + 2$ 
 $2 + 2$ 
 $4$ 



## **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:  $\sqrt{2}$ 

Real Numbers: All rational and irrational numbers are real

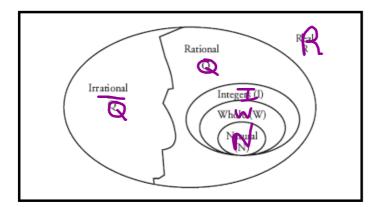
numbers

Ex: All possible numbers

#### **Exercise**

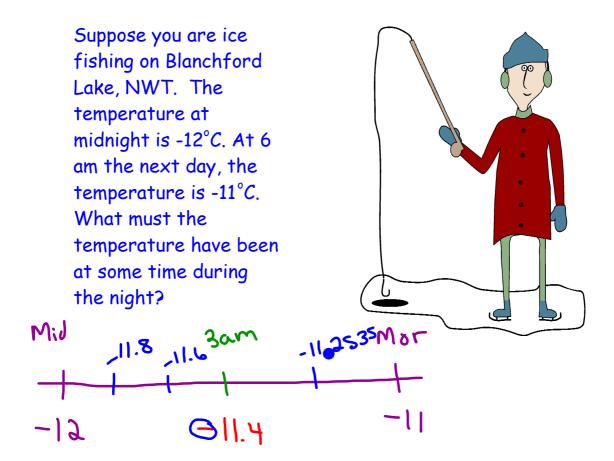
Complete the table

	Ν	W	I	Q	Q	R
5	/	1				
-2			/	<b>/</b>		/
3 4				<b>\</b>		<b>✓</b>
-1.3				<u> </u>		/
$\sqrt{7}$						/
$\sqrt{9}$		/	<b>\( \)</b>	<u> </u>		<b>/</b>



### TRUE or FALSE:

- 1. ALL integers are rational numbers.
- 2. ALL natural numbers are whole numbers.
- 3. ALL rational numbers are natural numbers.
- 4. ALL integers are irrational numbers.

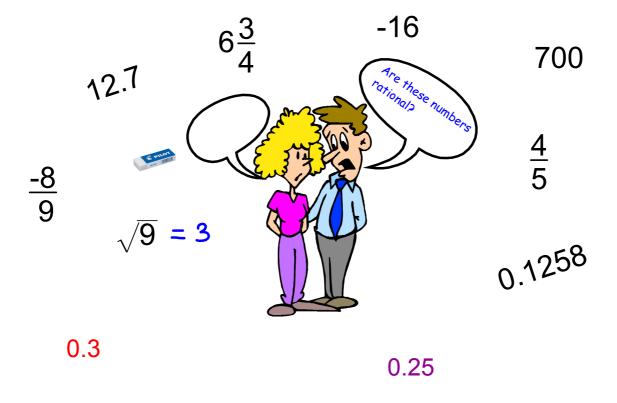


So you're saying a rational number can be written as a



A rational number is any number that can be written in the form  $\frac{a}{b}$  where a and b belong to integers and b $\neq$ 0.

$$Q = \left\{ \frac{a}{b} \mid a, b \in I, b \neq 0 \right\}$$



Use a calculator to determine the value of each rational number.

$$\frac{\bigcirc 7}{5} = -1.4$$

What did you notice?? 
$$\frac{-1}{2} = \frac{1}{-2} = -\frac{1}{2}$$

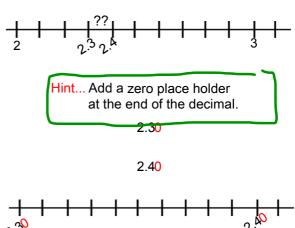
$$\bigcirc \frac{7}{5} = -1.4$$

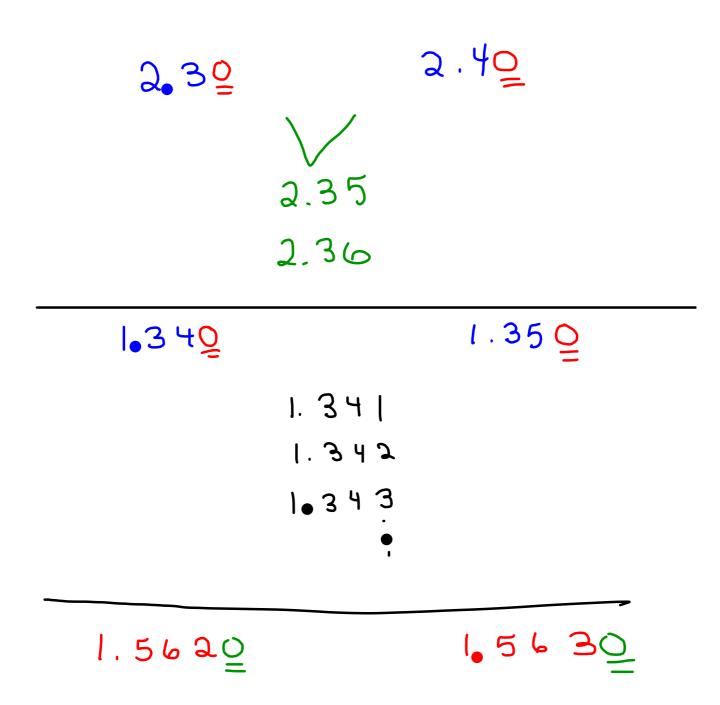
$$\frac{7}{65} = -1.4$$

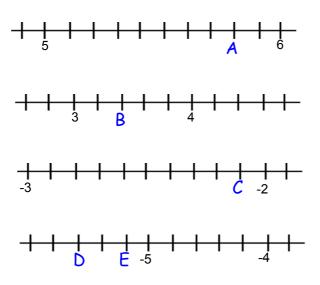
$$\frac{-7}{5} = \frac{7}{-5} = -\frac{7}{5}$$

$$\frac{1}{1} + \frac{3}{-3} + \frac{3}{-3} + \frac{3}{-3}$$

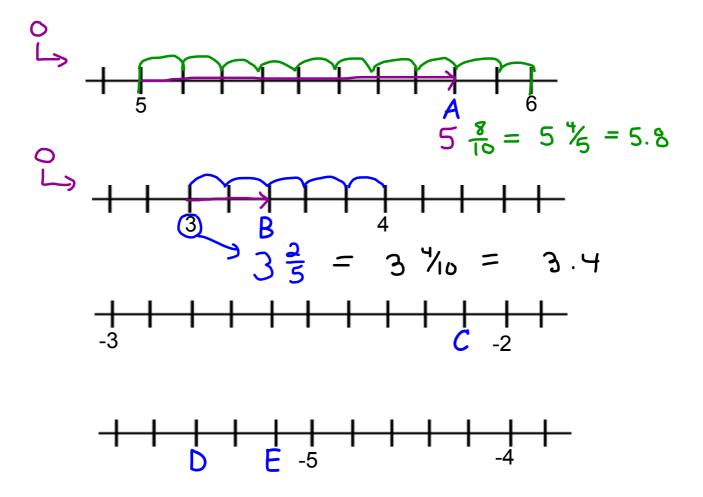


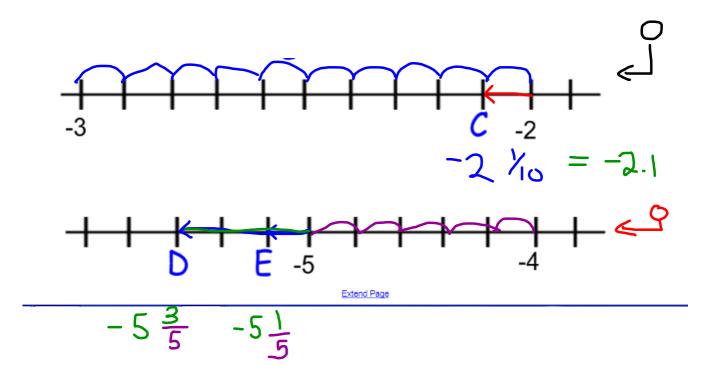




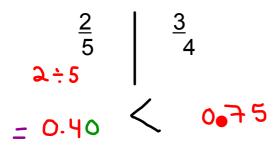




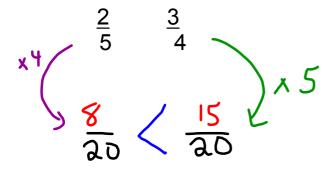




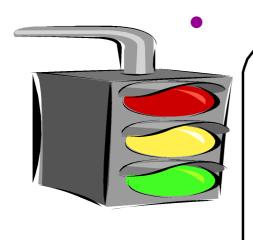
1. Change the fractions to decimals.



2. Write the fractions with common a denominator.







# Homework

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Questions: 5, 6, 7, (2007)

Study your notes on the number system for tomorrow's quiz!



$$\frac{2}{3}$$



