



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

No talking try it on your own

Hint: **BEDMAS** 



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





No talking try it on your own





1) 
$$5 - 6 \cdot (4-2) - 7(5+2)$$

$$= 5 - 6 \cdot (2) - 7(5+2)$$

$$= 5 - 3 - 49$$

$$= 2 - 49$$



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

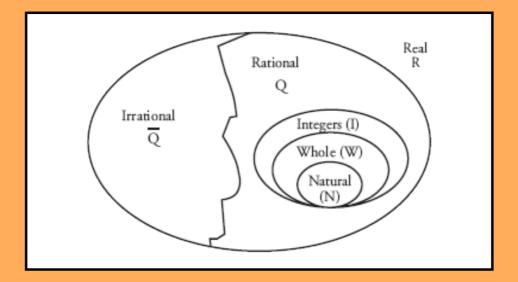
No talking try it on your own





12 
$$-2(4+1)^2+8 \times 5+36$$
 18  
12  $-2(5)^3+8\times5+36$  18  
12  $-2(25)+8\times5+36$  18  
12  $-2(25)+8\times5+36$  18  
12  $-50+40+2$   
=  $-38+40+2$ 

## **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

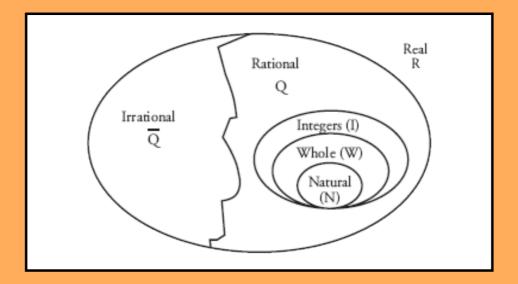
Ex: All possible numbers

Exercise  Complete the table		N7 = 2.645 75131600				•
	Ν	W	I	Q	Q	R
5	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>V</b>	X	<b>/</b>
-2	X	×	<b>/</b>	<b>V</b>	X	<b>/</b>
3 4	X	X	X	$\checkmark$	X	$\checkmark$
-1.3	X	X	X	<b>✓</b>	*	<b>✓</b>
<b>√</b> 7	X	X	X	X	$\checkmark$	<b>/</b>
√9.	<b>Y</b>	<b>/</b>			X	<b>/</b>
3						

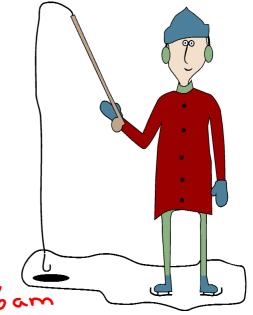
### TRUE or FALSE:

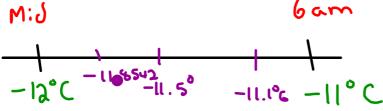
- 1. ALL integers are rational numbers.
- 2. ALL natural numbers are whole numbers. T
- 3. ALL rational numbers are natural numbers.
- 4. ALL integers are irrational numbers.

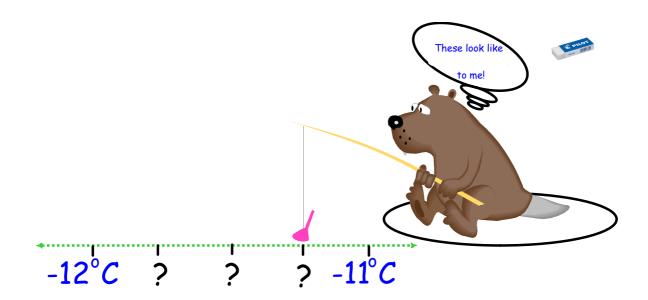
## **Review of Types of Number Systems**



Suppose you are ice fishing on Blanchford Lake, NWT. The temperature at midnight is -12°C. At 6 am the next day, the temperature is -11°C. What must the temperature have been at some time during the night?







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



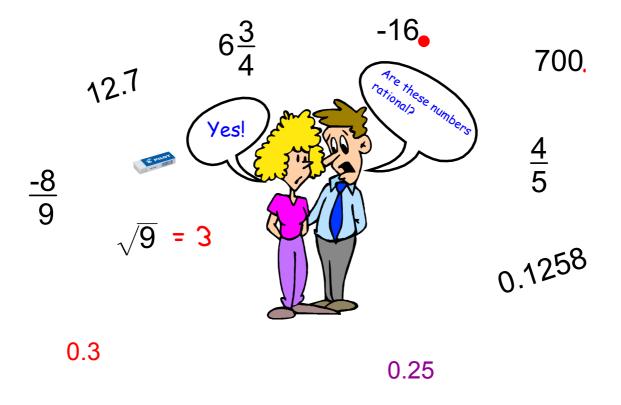
A rational number is any number that can be written in the form  $\frac{a}{b}$  where a and b belong to integers and b $\neq$ 0.

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

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

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

$$5$$



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

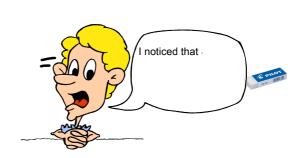
What did you notice??

$$-\frac{7}{5} = (-7) (5) = -1.4$$

$$-\frac{7}{5} = (7 \div 5) - = -1.4$$

$$\frac{7}{5} = 7 \div (-5) = -104$$





$$\left(\frac{2}{5}\right) \times \left(\frac{-1}{3}\right) \times \left(\frac{-3}{4}\right)$$

$$\left(-\frac{x}{5}\right) = -0.4$$

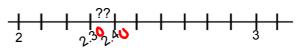
$$\left(\frac{2}{5}\right) = -0.4$$

$$-\left(\frac{2}{5}\right) = -0.4$$

$$\left(-\frac{1}{2}\right)\left(\frac{2}{3}\right)\left(\frac{4}{5}\right) =$$

$$\left(-\frac{1}{2}\right)\left(\frac{2}{3}\right)\left(-\frac{4}{5}\right) = \frac{8}{30}$$

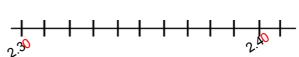




Hint... Add a zero place holder at the end of the decimal.

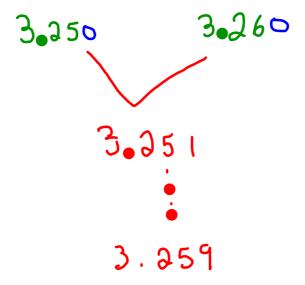
2.30

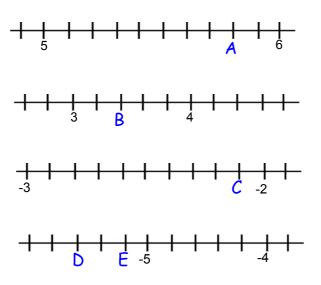
2.40

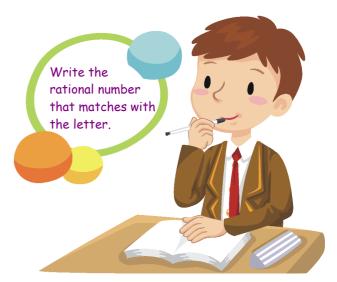


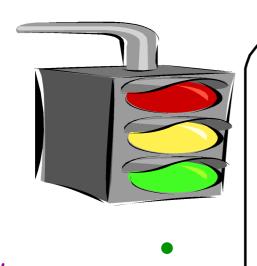
## What are 3 numbers

between 3.25 and 3.26









# Homework

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Questions:

5, 6, 7,

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