



Solve Each of The Following In Your Notebooks

No talking try it on your own

Hint: BEDMAS



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

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





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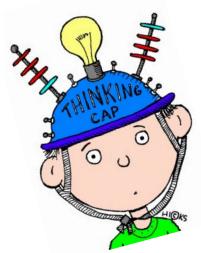


1)
$$5 - 6 \div (4-2) - 7(5+2)$$
 $5 - 6 \div (2) - 7(5+2)$
 $5 - 3 - 49$
 $2 - 49$





No talking try it on your own



Hint: KDMAS

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

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

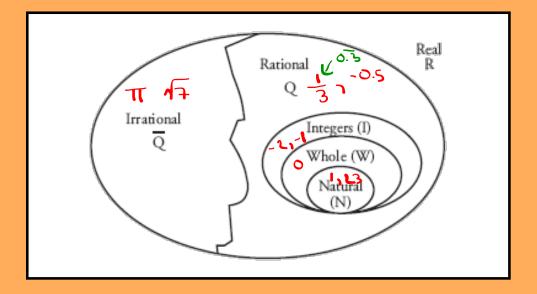
$$12 - 2(25) + 8 \times 5 + 36 \div 18$$

$$12 - 50 + 40 + 2$$

$$-38 + 40 + 2$$

$$2 + 2$$

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

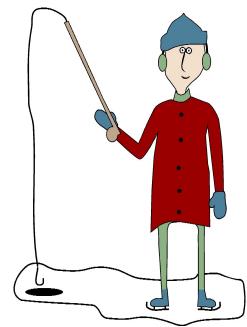
Ex: All possible numbers

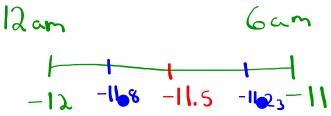
Exercise Complete the table -2,-1,0,1						•	
Complete	IN	W O'l'r	1	Q	Q	R	
5		/	V	✓	X	√	
- 2	X	X	V	\checkmark	X	V	
3 0 35	×	X	X	\	×	\checkmark	
-1,3	X	X	X	V	×	✓	
2.236		× × ×	\times	\times			
0.3	X	\times	×	\	X	V	
√9 =3	V	V		✓	×	V	
0	X	V	V	V	×	✓	

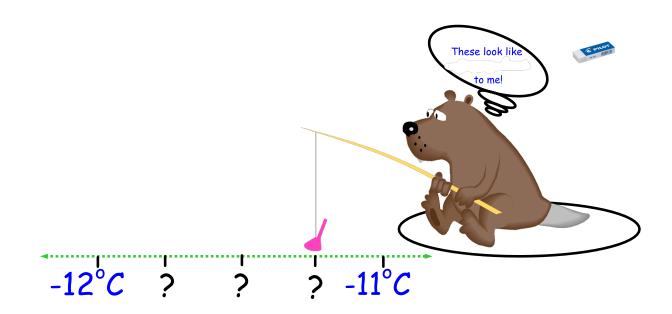
TRUE or FALSE:

- 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.

Suppose you are ice fishing on Richford 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?





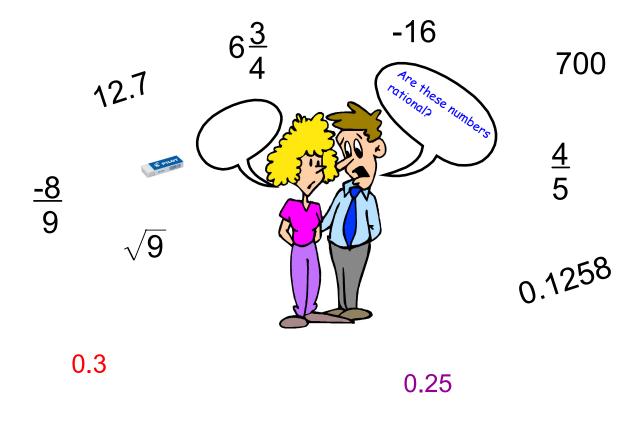




A rational number is any number that can be written in the form $\frac{a}{b}$ where a and b belong to integers and b \neq 0.

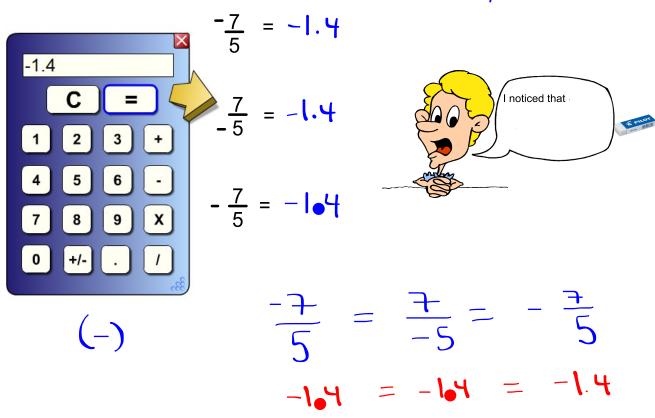
$$Q = \left\{ \frac{a}{b} \mid a, b \in I, b \neq 0 \right\}$$

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



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





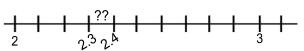
$$(-) \times (-) =$$

$$\left(\frac{-1}{2}\right) \times \left(\frac{2}{-3}\right) = \frac{-2}{-6} = \frac{1}{3}$$

$$\frac{-1}{2} \times \frac{-2}{3} = \frac{2}{6}$$

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

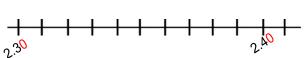


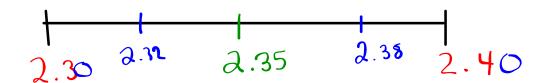


Hint... Add a zero place holder at the end of the decimal.

2.30

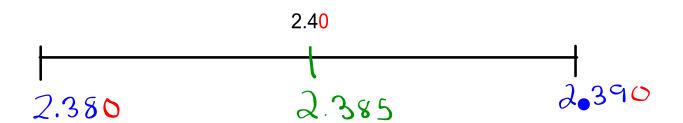
2.40





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





1. Change the fractions to decimals.

<u>2</u> 5

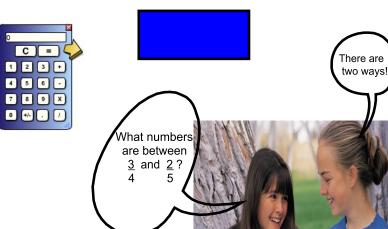
<u>3</u> 4

2=5



0.4





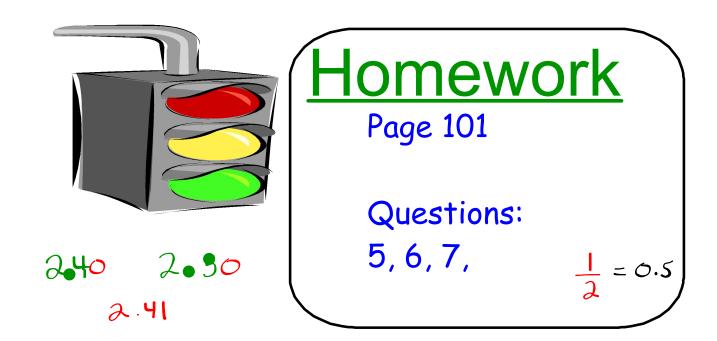
2. Write the fractions with common a denominator.

<u>2</u>

<u>3</u>

8

15



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