

Remember:

-Five minutes of silence

Please have out:

- Pencil
- Notebook
- A piece of lined paper
- Paper from back table

Warmup:

Do your warmups on a separate sheet of paper. **DO NOT** do your warmup in your notebook.

$$\begin{array}{r} 37 \cdot 7 \\ 4 \\ \times 37 \\ \hline 259 \end{array}$$

$$\begin{array}{r} 148 \div 4 \\ 37 \\ 4 \overline{)148} \\ \underline{-12} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

$$\begin{array}{r} 4 \\ 8 \\ 12 \leftarrow \\ 16 \\ 20 \\ 24 \\ 28 \end{array}$$

The Real Number System

Natural Numbers	1, 2, 3, 4, ...	All Rational
	Counting Numbers	
Whole Numbers	0, 1, 2, 3, 4, ...	
	Natural Numbers + 0	
Integers	..., -3, -2, -1, 0, 1, 2, 3, ...	
	Whole Numbers and their opposites	
Rational Numbers	$\frac{7}{5}$, $-\frac{3}{2}$, 0, -1, 5, $0.\overline{9}$	
	Any number that can be rewritten as a fraction	
Irrational Numbers	$\sqrt{2}$, π , 1.010010001...,	
	Any number that cannot be rewritten as a fraction	

****All real numbers are either rational or irrational but NEVER both!**

Rational Numbers:

1. Natural Numbers
2. Whole Numbers
3. Integers
4. Percentages
5. Fractions
6. "Ending" Decimal
7. Repeating Decimals

Irrational Numbers:

1. **Most** square roots
2. Decimals that go on and on forever but never repeat.