## Review: Numbers

Make sure you learn it for next class...........

## Venn Diagrams

Light review!!!!


Math Stud -

H>1.70

Real
Number Sets
$N^{*}$ is inst all $(t)$ integers.

- Natural Numbers $N \rightarrow$ all $(t$ integers $+\{0\}$

$$
\mathbb{N}=\{0,1,2,3 \ldots\}
$$

- mines $Z_{-3}$ all integers $\left.(+1) \operatorname{man}(-1)\right)\{0\}$
$Z=\{\cdots-3,-2,-1,0,1,2,3, \ldots\}$$\frac{a}{b}$ when $a ; b \in \mathbb{Z}$ and $b \neq 0$
- Irrational $\pi, \sqrt{2}, 1.1384 \ldots$

Real Numbers


A quick note:
$\mathbf{N}^{*}=$ all natural numbers except for $\{0\}$
$Z^{*}=$ all integers except for $\{0\}$
$\mathrm{Z}+=$ all positive integers. So it does not include 0 , neither negative integers $\}$
Z- = all negative integers. So it does not include 0 , neither positive integers.

This is how IB draws its Number Sets Venn Diagram.


## Example 1

| 10 | Natural | $\mathbb{N}$ | Integese | $\mathbb{Z}$ |
| :--- | :--- | :--- | :--- | :--- |

## Example 2

- Draw the Venn Diagram of Real Numbers,



## Example 3:

- Given the following numbers, state what kind of numbers they are.


