## Classification of Numbers

## \#

Ask: Is this number legal in high school = Is the number real?


Yes = This number is real GO

- Ask: Can I write this number as a fraction $\frac{p}{q}$ where p is an integer, q is an integer and q is not a zero.

No $=$ This number is irrational STOP

Yes $=$ This number is rational GO

- Ask: Can I write this number without decimals? Or Can I write it as a fraction with number one in the denominator?


Yes $=$ this number is an integer GO

- Ask: Is this number negative?


Yes $=$ this number does not belong into any other set STOP
No = this number is a whole number GO

- Ask: Is this number a zero?


Yes = this number does not belong into any other set STOP
No $=$ this number is a natural $=$ counting number STOP

