* Ethereum & Bitcoin Block * [Unit-2]

*Bitcoin Block :-

* A block is a place in blockchain where information is stored and encrypted
* Blocks are identified by long numbers that include encrypted transaction information
* Block and its information must be verified by the network before new block can be created.

*Bitcoin per Block :-

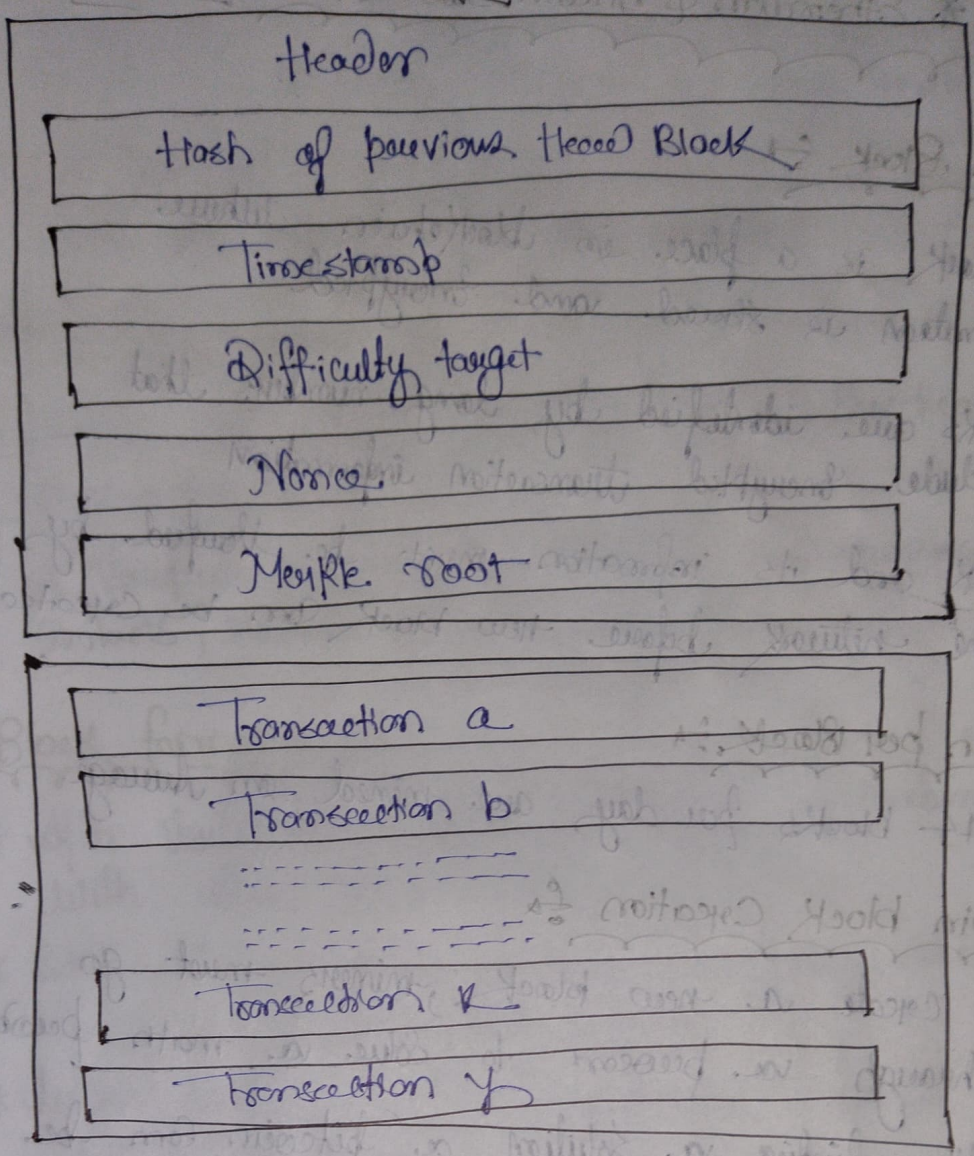
↳ 144 blocks per day are mined on Average.

*Bitcoin block Creation

* To create a new block, miners must go through a process to solve a math problem.
* After finding a solution, a bitcoin can be added to blockchain by consensus.
* Miner who will find the solution will be rewarded for new block.

*Bitcoin Block Structure

* Block is made of header containing metadata.
* It also contains long list of transaction.
* Header is 80 byte
* Average transaction is 250 bytes.



* Ethereum Block :-

↳ Block are batch of transaction with hash of previous block

→ This links block together in chain.

⇒ Ethereum Block use :-

* Ethereum Blockchain is powered by its native Cryptocurrency - Ether (ETH).

* The most common ETH-based cryptocurrency are build on ERC-20 token standards

* Working :-

* Both in Ethereum blockchain and bitcoin block chain, there is expected block time and average block time.
* In bitcoin expected time is 10-min, while in Ethereum it is 10 to 19 second.
* New Ethereum block is created every 14 second.
* Ethereum is more future proof than any protocol.

* Block and its role :-

* Each block stores previous hash, so its impossible to reverse and tamper data.
* Ethereum use proof-of-work as consensus Algorithm.
* Ethereum store several Important data.