

# Proof-of-Work: The Hash Puzzle

Hard to find (billions of tries) | Easy to verify (one hash)

## Block Header

Prev Hash

Merkle Root

Timestamp

## SHA-256

(twice)

*256-bit output*

## Hash < Target?

0000...xyz

(leading zeros)

YES

**Valid Block!**

## NONCE

Try: 0, 1, 2, ...

*(random search)*

NO -> Try another nonce