

# Mining Difficulty: Finding a Hash Below Target

**Target:** 000000000000000000000000abc123...

(Hash must be below this value = must start with many zeros)

Nonce: 1	→	Hash: 8f3a2b1c9e7d...	Too high	[X]
Nonce: 12345	→	Hash: 4a7b3c2d1e9f...	Too high	[X]
Nonce: 987654	→	Hash: 1c2d3e4f5a6b...	Too high	[X]
Nonce: 2,847,293	→	Hash: 00003f2e1d4c...	Getting closer!	[X]
Nonce: 18,432,847	→	Hash: 00000000000000...	VALID!	[Y]

## Difficulty Adjustment

Bitcoin adjusts target every 2016 blocks (~2 weeks) to maintain 10-minute average block time