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1 Section One

Problem: How many positive divisors does the number 496 have? What about 360?

Solution. We can prime factorize

Remark: 496 is a perfect number - remark about Mersenne primes - (2^{p-1})

Theorem 1.1. *One is the loneliest number*

Proof. Two can be as bad as one. It's the loneliest number since the number one¹.



¹<http://www.metrolyrics.com/one-is-the-loneliest-number-lyrics-three-dog-night.html>