

Name _____

Unlocking the Secrets of Perfect Numbers and Mersenne Primes

Short Answer

1. Define a perfect number and provide an example.
2. What is a Mersenne prime, and how is it represented mathematically?
3. Explain the relationship between perfect numbers and Mersenne primes.
4. Give an example of a Mersenne prime and the corresponding perfect number.
5. Why are perfect numbers and Mersenne primes important in the field of number theory?

