

## **Prime Numbers Quiz PDF**

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Why do prime numbers become less frequent as numbers increase?					
				/2	
Which of the following nu	ımbers are not prir	me? (Select all th	hat apply)		
21					
<ul><li>□ 22</li><li>□ 23</li></ul>					
<u>24</u>					
Which of the following nu	ımbers is a prime r	number?			
<b>○</b> 4					
<b>9</b>					
○ 11 ○ 45					
○ 15					

Explain why the number 1 is not considered a prime number.



	//
Describe the significance of prime numbers in modern cryptography	
, , , , , , , , , , , , , , , , , , , ,	
	//
How does the Sieve of Eratosthenes algorithm work to identify prime	numbers?
, p	
	//
What is the Goldbach Conjecture, and why is it significant in number	theory?
what is the dolubach conjecture, and why is it significant in number	theory:
	//

Discuss the historical contribution of Euclid to the study of prime numbers.



What is the only even prime number?
<b>O</b> 1
○ 2
○ 4
○ 6
What is a self-red to the self
Who is credited with proving that there are infinitely many prime numbers?
<ul><li>Pythagoras</li></ul>
○ Euclid
○ Euler
○ Gauss
Which of the following is not a property of prime numbers?
They have exactly two distinct positive divisors.
○ They are always odd.
They cannot be divided evenly by any number other than 1 and themselves.
○ They are greater than 1.
Which of the following are applications of prime numbers? (Select all that apply)
Cryptography  Weather foregoting
<ul><li>Weather forecasting</li><li>Random number generation</li></ul>
Error detection algorithms
Which of the following are prime numbers? (Select all that apply)
□ 23
<u>25</u>
<u>29</u>

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□ 31
Which of the following numbers is a Mersenne prime?
○ 7 ○ 11
○ 31
○ <b>63</b>
What is the smallest prime number greater than 10?
○ 11
○ 12 ○ 12
<ul><li>○ 13</li><li>○ 14</li></ul>
Which of the following statements about prime numbers are true? (Select all that apply)
Every prime number is odd.
<ul><li>There are infinitely many prime numbers.</li><li>The number 1 is a prime number.</li></ul>
Prime number are used in cryptography.
Which of the following numbers are prime? (Select all that apply)
<u></u>
<ul><li>□ 19</li><li>□ 20</li></ul>
Which method is commonly used to find all prime numbers up to a certain limit?
○ Euclidean Algorithm
Sieve of Eratosthenes
<ul><li>○ Newton's Method</li><li>○ Monte Carlo Method</li></ul>
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Which of the following are characteristics of the Sieve of Eratosthenes? (Select all that apply)
☐ It is used to find prime numbers.

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It involves dividing numbers by all smaller numbers.	
It systematically eliminates multiples of primes.	
It can find the greatest common divisor.	
hich theorem describes the distribution of prime numbers among positive integers?	
Fermat's Last Theorem	
) Pythagorean Theorem	
Prime Number Theorem	
Goldbach's Conjecture	