Name__ _____ Math 162 Online Fall Term 1

Date_____ Unit 3 Quiz

Chapter 5

Decide Whether each state is True or False

1. Every Natural Number is divisible by 1 _____.
2. 1 is the least prime Number_____.
3. There are no even Prime numbers_____.
4. If n is a natural number and 9|n, then 3|n___ ____.
5. If 16 divides a natural number, then 2, 4, and 8 must also divide that natural number_____.
6. Euclid's proof of the infinitude of prime is a proof by contradiction._____.
7. In the Times of Euclid, mathematicians had not achieved elegance in their proofs_____.
8. Every natural number of the 4k + 1 is prime_____.
9. There are infinitely many numbers_____.
10. The prime numbers 2 and 3 are twin primes_ _____.
11. Any prime number must be deficient_____.
12. Two even natural numbers cannot be relatively prime_____.
13. There is no prime number p such that the greatest common factor of p and 2 is _____.
14. Two Natural numbers must have at least one common factor_____.
15. The least common multiple of two different primes is their product_____

Chapter 6

Give a number that satisfies the given condition

16. An integer between 4.5 and 5.5_____.
17. A whole number that is not positive and is less than 1_____.
18. A real number that is neither negative nor positive_____.

Fill in each blank with the correct response

19. The sum of two negative numbers will always be a _____number (positive/negative).
20. The sum of a number and its opposite will always be_____ _____.
21. Explain in words how to ass signed numbers. Consider the various cases and give example.

Decide whether each statement is True or False

22. 300 % of 12 is 36_____.
23. 25% of a quantity is the same as ¼ of that quantity_____.
24. To find 50% of a quantity, we may simply divide the quantity by 2_____.
25. 30 is more than 40% of 120_____.