Name Mr. Key	Seat
MathSci 119 sec.1	
Quiz 1	January 21

1. Finish this definition of prime:

An integer p is called prime provided P>1 and the only positive divisors of p are 1 and itself.

2. For each of the following numbers, say whether it is prime or not and if not explain why not:

not explain why not:

(a) π No+ a prime be cause it is not an integer.

(b) 2 is a prime,

(c) 1807 No+ a prime be cause 1807 = 13×39, 50

13 and 39 are divisors not equal to 1 or to 180),

Now many positive divisors does the number 1800 have: $1800 = 2^{3} \times 3^{2} \times 5^{2} \quad \text{so if has } (3+1)(2+1)(2+1) = 36$ $1800 = 2^{3} \times 3^{2} \times 5^{2} \quad \text{so if has } (3+1)(2+1)(2+1) = 36$ $1800 = 2^{3} \times 3^{2} \times 5^{2} \quad \text{so if has } (3+1)(2+1)(2+1) = 36$ 3. How many positive divisors does the number 1800 have?

4. State the hypothesis and conclusion of the following statements:

A positive integer a is a divisor of a positive number b only if $a \leq b$.

hypothesis: a and b are positive integers with af b

conclusion: Q ≤ b

To do well in Mthsc 119 it is necessary to be able to do proofs.

One does well in 14thsc 119. hypothesis:

One can do proofs. conclusion: