numbers one called agral if they differ by less flow may premiented constant, However small. This is steinally errorited by the mettlet 0.9 is equal to unity, Every autrowal number accepted than 1 will Q.9 = 1 der Allwys exceed that decimal approximation Hencer D. 9 is ove. 12. The square pool of two. Since the set of eatronal wombers is double any between two appropriately p 78 extinuel numbers of Goss blan Re, A third by can glurys be round Such that Ra < Rx < The ite should now be possible to find a number Which whitiplied by itself, yields the womber 2. Since 1 = 1 is less than 2, AND 2 = 4, is greater than 2, we need only consider the Rational number between a mob 2. The squares or any voluber GRAPET WAN 2 WILL be GREATER THAN 40 YOUR ALL ADD SHEET THE TOTAL In investigation the numbers between 1 mp 2 so time a number wick multiplied by itself yields also woulders 2, a methodical process will be used 3 5 A thorn witten posice and says in it A 2.25 2-00225 2-0004449 2-000182084 B 1.5 142 14143 141422 C: 14 C - LHISOMO SHUMBERS SHIME AND SHOP BOOK D 1.96 1.9831 1.9996164 1.9999 899421 10/62/2019 A is a sequence, every members with is the equate of the corresponding MEMBER of B. D is a sequence, every member of with it the square or the coages pording member of C. The First Member, I.H., of the sequented C is chosen so that its square will be less than 2, Anso that it difficult from the first wender of B in the first Digit after the section Point. The square of B is a number greater than 2. The second members of the requires B and C are selected so that the DIFFEE PROMERCY OFHER ONLY IN the second profit AFTER THE SECTION point while their sources are correctively directed than and less than 2. THE NUMBER WHOSE SQUARE IS 2 MOST LIE between EHESE two water or sequences B and C. The societing members of B and C are chosen in a similar manifer. Hence, each successing member of B decreases in magnitude with the each succession member of Chargerases in magnitude. The number whose some is 2 Always has between town consumption members of & and G. The further we go in each Sequence. The more closely do their number approach the square cool or 2, one from above, one from boom. The intermediacs of later Sequences will direct from each other in the why digit after the Decimal Point. The web newber position seguence gives an