

Base Place Values (given in base 10 numbers)

Base 2: 512 256 128 64 32 16 8 4 2 1

Base 3: 729 243 81 27 9 3 1

Base 4: 1024 256 64 16 4 1

Base 5: 3125 625 125 25 5 1

Base 6: 7776 1296 216 36 6 1

Base 7: 16807 2401 343 49 7 1

Base 8: 32768 4096 512 64 8 1

Base 9: 6561 729 81 9 1

Base 11: 14641 1331 121 11 1

Base 12: 20736 1728 144 12 1

Things to Know/Memorize:

- (1) Different methods for addition, subtraction, multiplication and division
- (2) Different methods for GCF and LCM.
- (3) Properties of Addition and Multiplication with whole numbers
 1. closure
 2. commutativity
 3. identity
 4. associativity
 5. distributivity
- (4) Rules of Exponents
- (5) Number of total factors for any composite number
- (6) Arithmetic with zero
- (7) Mental Math strategies
- (8) Prime Factorization