1. X is a
positive integer. 2-height of X is defined as the greatest negative
integer n where 2^n is a factor of X. K and M are two positive
integers. Whether 2-height of K is greater than 2-height of M?a. K is
greater than Mb. K is even times of M (Key: B) 2. X, Y and Z are three
different prime numbers. How many factors does X*Y*Z have?
(Key: 8) 3. XY>Z?a. XYZ>1b. $XYZ^2=1$(Key: C) 4. XYZ>0?a.
XY>0b. YZ>0(Key: E) 5. $7^3*7^4=?$ (Key: 7^7) 6. A is 25% less than
B and B is 25% less than C. How much percent is A less than C?
(Key: 1/3) 7. A can finish one job in X hours. A does this job three
times as fast as B does. If A and B work together, how many hours
can they finish the job? (Key: 3X/4) 8.   N?   1 (69
N)^1/2   (94 N)^1/2   2 (94 N)^1/2   (121 N)^1/2
            D 9.   5   4
                              70   10.
     5   11.   3
   P(2,1),M(5,1),N,(5,5).   P->M->N   P   N
            12. R,S,T   T/S^2   1
   T/RS   2   R/S   13. 0.6   0.0015   400
   14.   jj   box,   of the plastic   1   inner
   x,y,z   plastic   (x 2) (y 2) (z 2)-xyz
     15.   ABCD   AD=CD   P   AD
    (1) PD=5 (2) BC=8 (   )   E 16.   12   DD,

3 defective, 2 randomly, neither is defective
?17. , (0,3), (-4,0),
(b,0), b?18.2 48, 2,
?(8) 100Test