1)
(a) 262 144 000 Blocks
(b) Blocks = Entries amount
(c) 28 Bit -> x = log2(262 144 000)
(d) (262 144 000 * 28) / 1024 Bytes = 7 168 000 Blocks (With a block size of 1 kB)
2)

(a)

107 834 590 - 256 = 107 834 334 -> Single indirect
107 834 334 - 256^2 =  107 768 798 -> Double indirect
107 768 798 - 256^3 = 90 991 582 -> Triple indirect
90 991 582 - 4 294 967 296 = - ... -> The data block has to be there

(b)

107 834 590 / 1 024 = 105 307 Blocks to skip
107 834 590 % 1 024 = Bytes to skip
Skip the first 105 307 blocks, after that, skip the remaining Bytes to get the exact position.

3)

4 Kb File size: ~16 TB
1 kB File Size: ~4 TB

4)
(a)
512 Bytes because of the maximum file size.