804 (9)

According to givey question dimensions = 8

each dimention having distinct value: 5

Let Is say a datable have on dimensions

and each dimention having p distinct value.

n=8, p=5

(a) Maximum Number of cells traving possible in base cuboid

=> Pm

2 58

> 890625. Ane

(b) Manimum mundre of cess possible in base cuboid

= 5 Ang

(c) Minum number of cells possible in data cube D?

 $= (2^m - 1) \times p + 1$ 

 $= (2^8 - 1) \times 5 + 1$ 

 $= 855 \times 5 + 1 = 1275 + 1$ 

= 1276 Ano.

(4) Maxim cell possible in datacube D

 $=(p+1)^{m}$ 

 $= (P71)^8 = 6^8$ 

= 1679616 Ane