T14 G1 04 Mar 2022 04 March 2022 11:07
pigeonhole principle:
Jegeonhole principle. If n pigeonholes are occupied by n+1 of more pigeons, then al least one pigeonhole is occupied by more than one pigeon.
one pigeon.
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Cg Jeue au 13 strolests in a class sen at least sno
gradent here born on the some month.
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The programmed principles of the programmed of t
is occupied by (x+1) or more pigeons.
n pigember mel et more 2n+1 Pigen
nel of more 2 of more. 2 of more 19 19 19 19 19 19 19 19 19 19 19 19 19
Korel = 7 pieger
Find the minimum no. 9 Students in a class to be suse
that there of them are both in the same month.
$\eta = 12$ $K+1=3$
Kn+1= $K=2$
a(ix)+1
= 25

Suppose a bog Cartains many sed, white and blue socks. Find the minimum no. 9 socks that one needs to choose in order to get the pairs (4,80K8) 9 th seme color. $\eta = 3$ (who pipentsh) $k+1=4 \implies k=3$ $k+1=4 \implies k=3$ $k+1=4 \implies k=3$ Find the minimum no. 9 students needed to generate that fire 9 them belongs to the same class (BCAI, BCAI, NCAI) n=4 $k+1=9 \implies k=4$ $k+1=9 \implies k=4$

example 84: What shall be the minimum number of words that must begin with the same alphabet at 27 inglish words.

$$\frac{26}{8} \frac{\text{Alphobel}^2}{\text{Alphobel}^2} = \frac{16}{1} \frac{1}{1} \frac{1}{1}$$

The total number of 9 digit numbers which have all different digits is

@ 10] @ 9x9! @ 9! @ 10x10!

