Hw 6 Country

Paul Yang

6.1.

7. 263 bewie

26 leters and 3 Slots

28.

Sum rule

let a= num vays for 3 dig, 3 les let b= nrm hays for 3 heters, 3 day

01 = 10×10×10× 26×26 ×26

5= 26×26 × 26 × 10 × 10 × 10

azzb. ansier = (atb

proba con ferman prolu rue Shoe femile 69. male

12410=22

the Store reels 8*15=38 pas

21. 7 mms

a. 56, 63, 70, 77,

84, 91,98

5, 55, 66, 77,88, Ga.

C. 1 mm. 77

35.

a : 0 b. * 5!

L. 61.

7.6.5.4.3

 $=\frac{7!}{2!}$

Dans Yang 2 3. a. 3 socks b. 14 socks 5, set of mod by 4 7. 50, 1, 2, 35 airaity aitz. - an-1 Set of 5 numbs he know that U; mol n Sa, az, a, a, a, a, 4, 12, 16, 20, 24, 28, is disting for Since this funer IS the values of the injures. onto, frere mor exist She ther C a remainly with 22 18. are N value of thts. mos rans a. If a days N rums in see has ≥ 5 Steleny the funda is bieth the is true. 23, & If not, it must have $\angle 5$ stylers. The trained number before 5 15 4. If there are 4 makes, there must be 9-4=5 Ferna. HO DE

Davil lang

6.3 3. b. 123 134 145 12) 132 213 312 124 142 214 462 (25 152 215 BIZ 125 134 143 314 413 234 245 (35 154 415 513 (45 154 415 514 235 345 6. 5,1 = 5 h. 523- 4.5 = 10 63.31, = 720/6=120 C. 8.4- 5.6.7.8 = 20 h. 6c5.51 = 720/12720 C. 8c1.11 = 40320/5000=8 21 41 = 120 3U. M3 ac(16,5) Since he can b 31.4 = 24 -(9,5) C 120. ignore this constant an = 424 Realize the 2 varys than e.6 .0. n 4242this is possible are: ABAB... 50... Z. (NI *N) CC75) =4721

2

2

2

3

Mad Yung 6.4 $(x+y)^{n}=\sum_{i=0}^{n}(i)x^{n-i}$ { x6+6x4 121 + 15x4y2 1331 + 20x3 y3 41527914641 x4 + 4x3y+6x2y2+4xy3+y4 +6xy5 15 10 1051 + 16 16 15 20 15 6 1 $\begin{pmatrix} 4 \\ 0 \end{pmatrix}, \begin{pmatrix} 4 \\ 1 \end{pmatrix}, \begin{pmatrix} 4 \\ 2 \end{pmatrix}, \begin{pmatrix} 4 \\ 14 \end{pmatrix}$ 7. 210. -1. 92378 8. (17) . 38 . 29 1 9 35 84 126 126 84 36 91 Show that if $\frac{1}{(n-1)}$ $\frac{1}{(n-1)}$ $\frac{1}{(n-1)}$ $\frac{1}{(n-1)}$ idk

Dan't Jam A.A.A.A.A.A.2 A6= 164 20 (4,1), (48,4) C (4,2) ((4, 4) ((4, 4) 1+4+6+4215 194580-15=2918700. 25 n 15845700 5066 3 <, 4. 18/38 1. (18/38) 2.236 (36/34) e. 6/38 · 32/38