22A

olor

(2)+1

18

25

12

3)

(08) 24_R 20_M

8_N 14_V 10_A

{POR LO MENOS} 12

MISMO COLOR

$8_N + 10_A +$

$20_m + 24_M$

12

∴ 74

4 {MISMO} MES

3(12)+1

37

5 {MISMO} DÍA

4(7)+1

29

(07) 2 {MISMA} FECHA

1(366)+1

367

500 − 367

133

$60 \leq 3^{(4)}$

81

∴ 4

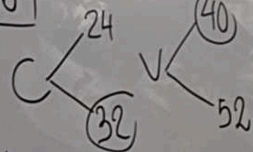
(05) 25 × 8

$200 \leq 3^{(5)}$

243

∴ 5

(06)



$y_{min} = 40 - 32$

8(80)

640

$N \leq 3^n$

$3^4 = 81$ $3^5 = 243$

$3^6 = 729$

(03) $287 \leq 3^{(6)}$

729

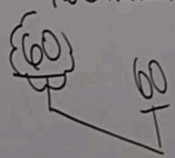
∴ 6

(04) DINERO

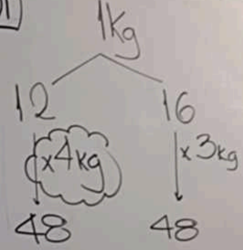
S/. 600

↓ S/5

120 MONEDAS

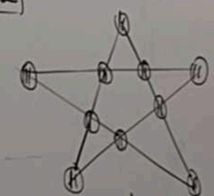


(01)



4 DOCENAS

(02)



10

$4a = 27$

$a = \frac{27}{4}$

$3b = 27$

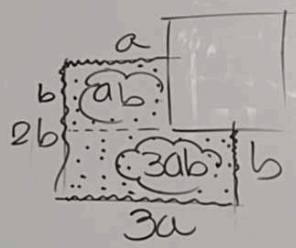
$b = 9$

ÁREA: $4ab$

$4\left(\frac{27}{4}\right)9$

$243\,m^2$

(13)



CERCO:

$4a + 3b = 54$

$27 \quad 27$

(12) $y = 2x^2 - 32x + 315$

$4x - 32 = 0$

$4x = 32$

$x = 8$

8 VECES AL DÍA

MES JUNIO

$30(8)$

240

(11) $y = -x^2 - 400x + 6000$

$-2x - 400 = 0$

$-2x = 400$

$x = -200$

$-(-200)^2 - 400(-200) + 6000$

$y_{máx} = -40000 + 80000 + 6000$

$y_{máx} = 46000$

(09) ~~12~~ V 18_N 22_A

~~13~~ B

15 MISMO color

$12 + 13 + 14(2) + 1$

54

(10)

C $\begin{matrix} 12 \\ 21 \end{matrix}$ V $\begin{matrix} 18 \\ 25 \end{matrix}$

$y_{máx} = 25 - 12$

$13(3)$

39

(23) $3_N + 4_B + 2_A + 5_R + 1$

Por útil 15

Peor: Medias

3_N 4_B 2_A 5_R

En peor útil #colores + 1

4 + 1

5

(24)

	C_1	C_2	C_3	
L_1	X	X	✓	2
L_2	X	✓		1
L_3	✓			0
				3

(27) 23_R 25_B 28_{AM}

8_N 11_V 11_A

15 de uno de los colores

8 + 11 + 11 + 14(3) + 1

73

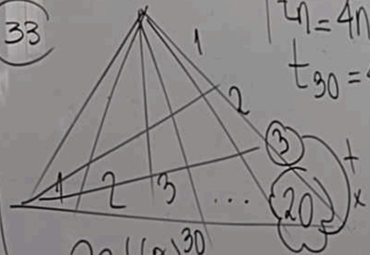
(28) 3 sabores

4 mismo sabor

3(3) + 1

10

(33)



$\frac{23(60)^{30}}{2} = 690$

(34) F_1 F_2 F_3

5 9 13

4 4

$t_n = 4n + 1$

$t_{30} = 4(30) + 1$

121

(14) 366 | 5
1 73

A B C D E
73 73 73 73 73

∴ 74

(15) 7 SUCURSALES
80 TRABAJADORES

$9 \leq E \leq 15$

$E = \cancel{9}\ (10) \cdots ; 15$

5 SUCURSALES

$E_{mín} = 10(5) = 50$

30 — 50

30

15 15

52 ← 13♠ 13♠ 13♢ 13♡

(16) 2♢ y 10♡

13♣ + 13♠ + 13♡ + 2♢

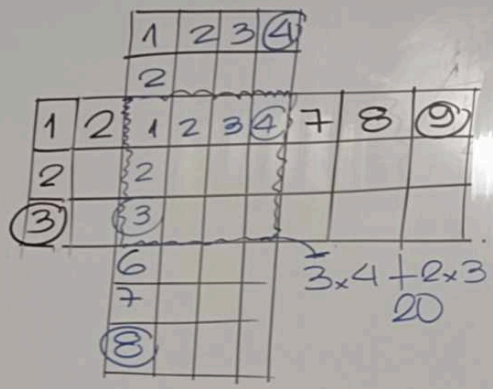
∴ 41

S/10 < S/2 → 5 Mayor
S/5 → 2 Mínimo

(22)

S/2	S/5
Máxima	máxima	mínima
	(87) + (2) → 89
	S/174	S/10
	S/184	

(35)



$3\times4+2\times3+1\times2$

20

$* \; 3\times9+2\times8+1\times7$

$27+16+7=50$

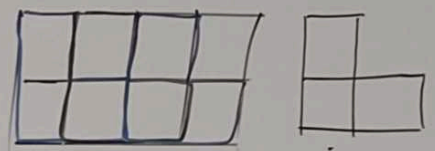
$* \; 4\times8+3\times7+2\times6+1\times5$

$32+21+12+5=70$

$50+70-20$

100

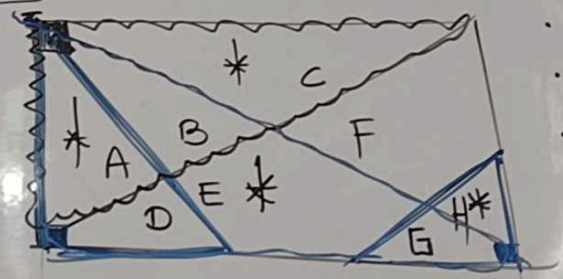
(36)



3 3 3 3

12

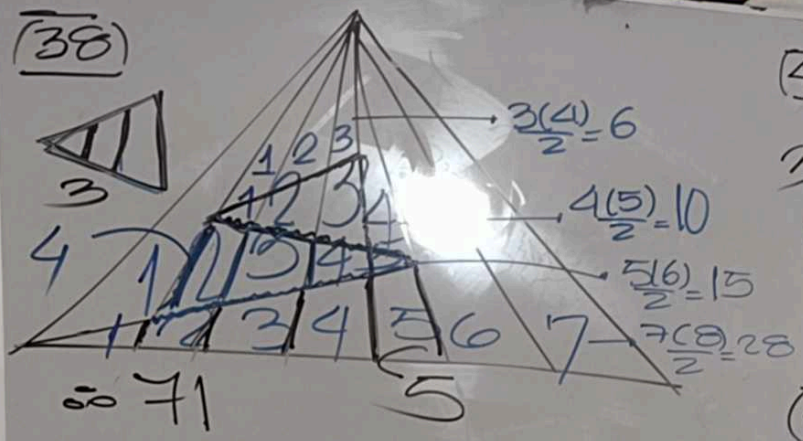
(37)



- AD
- HG
- ABC
- DEFGH
- ABDEG
- CFH

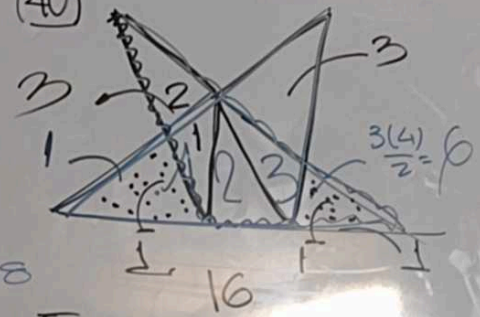
6

(38)

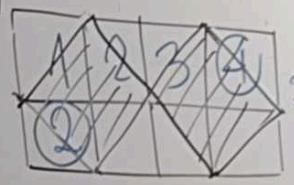


∴ 71

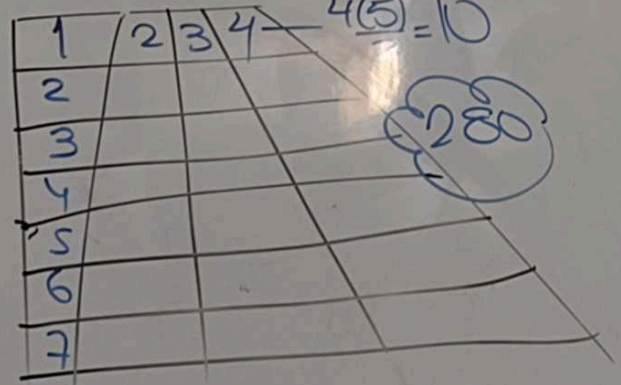
(40)



(42)

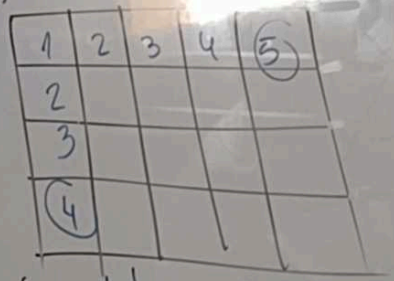


(39)



7(8)/2 = 28

(41)



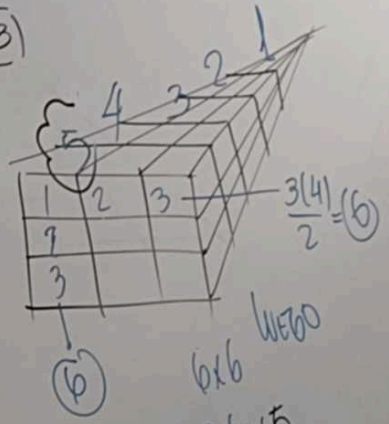
(cuadrítero) − (cuadrados)

5(6)/2 × 4(5)/2 − (4×5+3×4+2×3+1×2)

150 − 40

110

(43)



luego

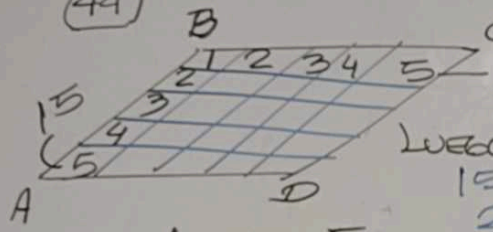
6×6

36×5

180

CS: ⟨-8,-7] ∪ [8,

(44)



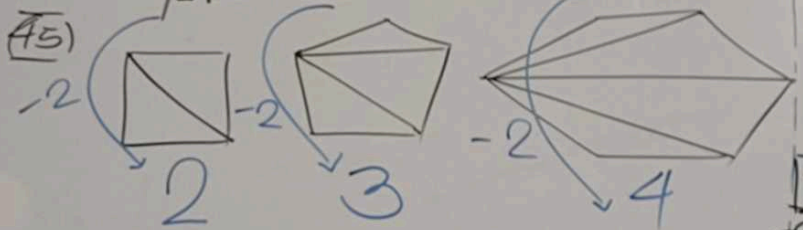
$\frac{5(6)}{2} = 15$

LUEGO:

15×15

225

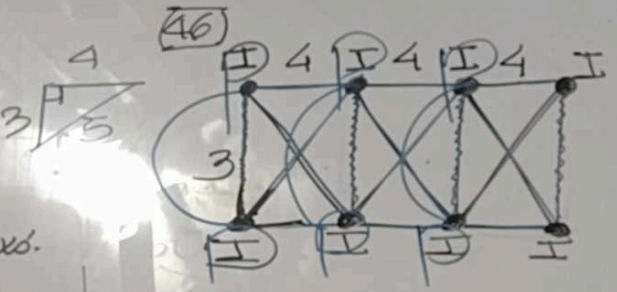
(45)



12 LADOS

$-2 \rightarrow 10$

(46)



$e = 12 + 24 + 30 + 3 + 3 + 3$

$e = 75$

$I = 8$

$N_R = \frac{I-2}{2}$

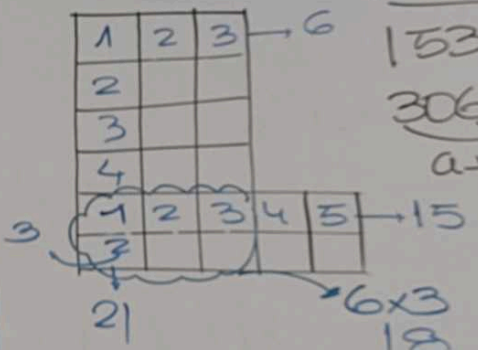
$N_R = \frac{8-2}{2} = 3$

$e = VT$

$75 = 15T$

$5 = T$

(47)



$6 \times 21 = 126$

$3 \times 15 = 45$

$171 \mid -18$

$\mid 153$

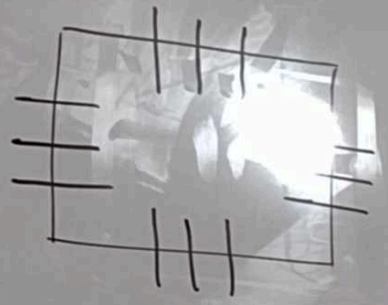
Nº DIAGONALES

153×2

$306 = \overline{a0b}$

$a + b = 9$

(48)



1 | 1 | 2 | 1 | 3 | 1 | 4 → (10)

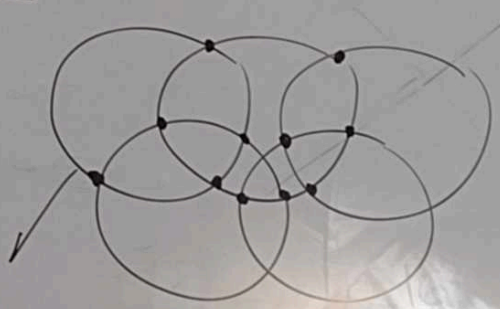
2 2 2 | 19

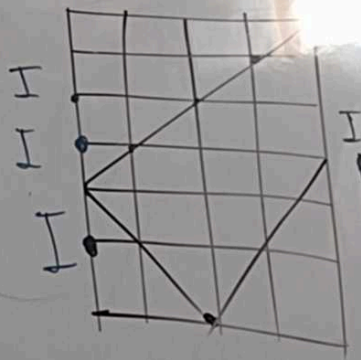
(3) (3) (3)

LUEGO: 19×4

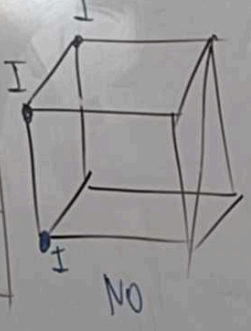
76

(49)





NO



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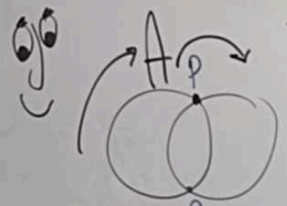
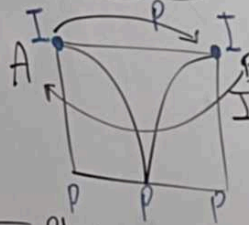
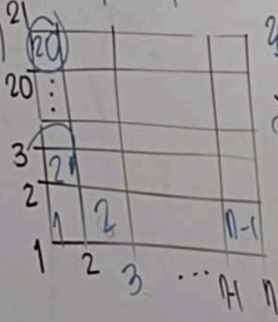


TODOS PUNTOS PARES
INICIA Y TERMINA EN EL MISMO PUNTO



2 PUNTOS IMPARES
INICIA EN UNO Y TERMINA EN EL OTRO

(50)



$\frac{20(21)}{2} \times \frac{(n-1)n}{2}$

$210 \times \frac{n(n-1)}{2}$

$105n(n-1)$

CS: $\langle -8, -1] \cup [8, 7$