⑦ $8 \times (E, F, D)$

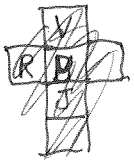
$\frac{8 \times 7}{2} \times 3 = 28 \times 3 = 84$

⑧ ~~0400~~

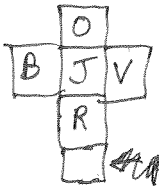
13h10 : 1er

$13h08 + 99 \times 2 = 13h08 + 198 = 13h08 + 3h18 = 16h26$

⑨



Si J une fois :



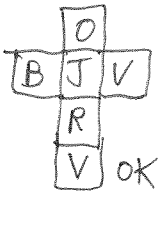
V|B

~~pas V|B|R~~

face cachée du 1 : J ou O (1 fois)

J|V et V|B

O|V et O|R impossible.



OK ⇒ V seule sol°

Si J 2× : J|R et J|B et O|V imp.

⑩ ~~□ + △ = 101~~

EC	$C+T=10$	~~$C+T=10$~~
+ EE	$3E+1=10+C$ ou	$3E+1=20+C$
+ CET	$C+1=E$	$C+2=E$
ECE	⇓	⇓
	$3E=8+E$, $E=4$	$3E=17+E$
	$C=3$	imp.
	$T=7$	

$$\begin{array}{r} 43 \\ +\ 44 \\ +\ 347 \\ \hline 434 \end{array}$$

⑪ 8h 8h5 8h10 8h15

~~D B~~

~~A D C B → C~~ 8h59 imp.

~~C D A B → x = A~~

~~D A B C → x = A~~

~~D C B A → x = C imp.~~

~~8h10 → D~~

D x B →

8h	8h5	8h10	8h15
C	D	A	B
9h04	9h08	8h59	9h02
64	63	49	47
ou 9h08	9h04		
68	59		

ou

8h	8h5	8h10	8h15
D	A	B	C
9h04	8h59	9h02	9h08
64	54	52	53

→ 2 sol° : BADC et BCAD

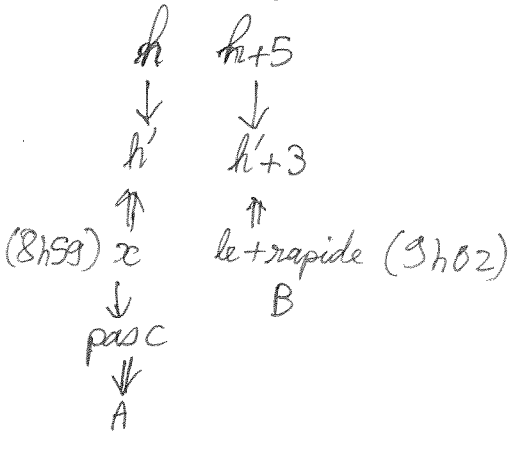
Ecart dép : 5, 10, 15

" arr : 3, 2, 4, 5, 6, ~~7~~ 9

x et x+1

⇓

arr à 3 min ~~d'écart~~ d'écart.



(12) $2006 \times 26 \equiv 0 \ [4]$

- ~~Division~~
- X : 0 2 -2 4 -4 ...

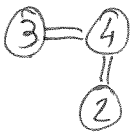
1	2	3	4	5	6	7	8	9	10	11	12
0	0	1	2	-2	-2	4	4	-4	-4	6	6
			↑				↑			↑	↑

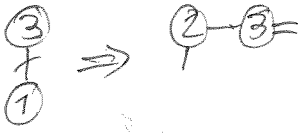
$\frac{2006 \times 26}{2} =$ ~~2006~~ $1003 \times 26 = 26078$

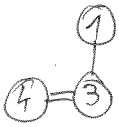
- Y : 0 1 1 ↓-2 -2 3 3 ↓-4 -4 5 5 ↓-6 -6

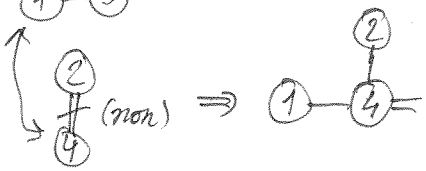
1	2	3	4	5	6	7	8				12

$Y = -26078$

(13) 1. 

2bis : 

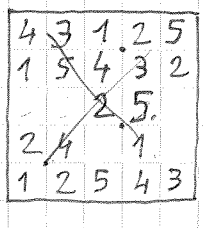
2. 

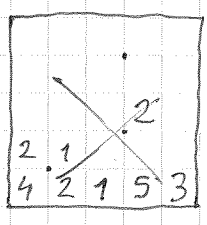
3. 

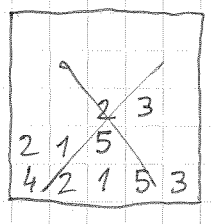
(14) $24 = 2^3 \times 3 = 1 \times 2 \times 3 \times 4$

$30 = 1 \times 2 \times 3 \times 5$

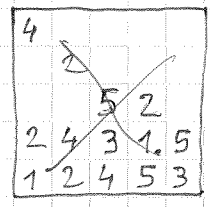
$16 = 1 \times 1 \times 4 \times 4 \rightarrow$ imp (diag).
ou $1 \times 2 \times 2 \times 4$
↳ placés, puis 3 en bas à dr.

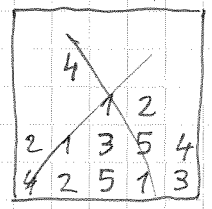






4	3	1	2	5
5	1	4	3	2
3	5	2	1	4
2	4	3	5	1
1	2	5	4	3



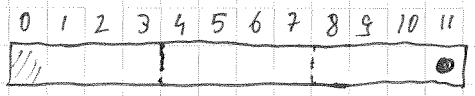


(16) $(a+b)(c+d)(e+f) = 2006 = 2 \times 1003 = 2 \times 17 \times 59 \times 1$

1	1	2006	→	2008
1	2	1003		1005
1	17	118		136
1	34	59		94
2	17	59		78

5 sol°

(17)



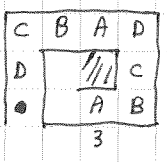
B: Noyau: $(0,0,0)$ P: $(0,0,x \neq 0)$

$(0, 1, 2)$
$(0, 3, 4)$
$(0, 2k-1, 2k)$
$(1, 3, 5)$
$(1, 4, 6)$
$(1, 7, 9)$
$(1, 8, 10)$
$(2, 3, 6)$
$(2, 4, 5)$
$(2, 7, 10)$
$(2, 8, 9)$

$(0, 1, x \geq 3)$ $(0, 2, x \geq 3)$
$(0, 3, x \geq 5)$ $(0, 4, x \geq 5)$
⋮
$(1, 2, x \geq 3)$ $(3, 4, x)$ ... $x \geq 11$

$(3, 7, 11)$
$(4, 8, 11)$
$(5, 9, 11)$
$(6, 10, 11)$

4 sol° A, B, C, D



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