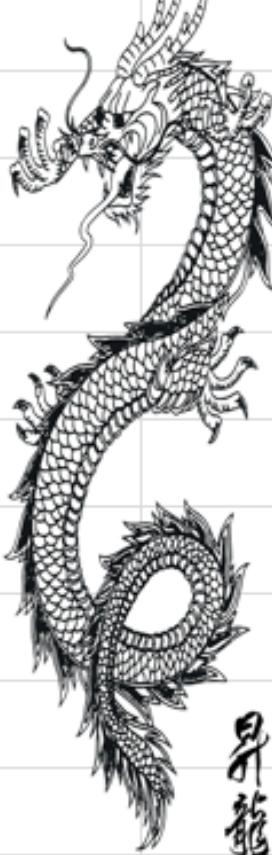


TRABOCCHETTI SOTTO L'OMBRELLONE

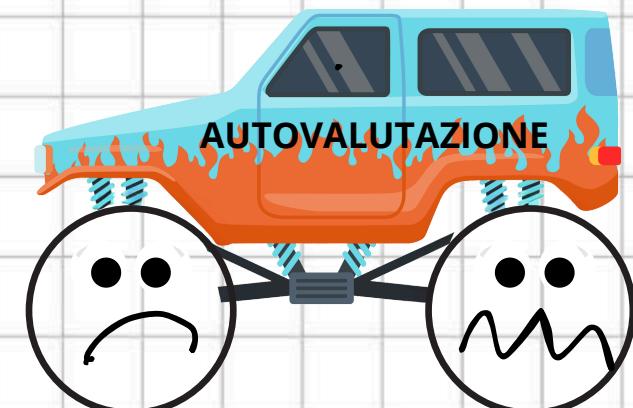
$$\underline{\underline{1000}} - \underline{\underline{8092}} = -\underline{\underline{7092}}$$

A 4x6 grid puzzle. The grid is divided into four vertical columns and four horizontal rows. Each cell contains a black diagonal line from top-left to bottom-right. The first column has an orange border. The second column has a black border. The third column has a green border. The fourth column has a red border. The fifth column has a blue border. The sixth column has a white border. The numbers 3, 6, 6, 5 are placed above the grid.

A 4x4 grid puzzle. The top row contains four squares: orange, black, black, and black. The second row contains four squares: black, black, black, and black. The third row contains four squares: black, black, black, and black. The bottom row contains four squares: green, red, blue, and blue. The first column has a yellow border, the second column has an orange border, the third column has a green border, and the fourth column has a blue border. The first three columns have diagonal patterns: the first column has solid orange squares, the second column has black squares with white diagonal lines, and the third column has black squares with black diagonal lines. The fourth column is entirely black.



86	4	90	4	72	5	86	4
46	10	50	10	22	10		
6	10	10	10	R2	4		
R2	1	2	2			14	
	11	R2	22				



IL MAGICO 9

SE AD UN NUMERO SOTTRAGGO

LA SOMMA DELLE SUE CIFRE...

LA SOMMA DELLE CIFRE SARA'

SEMPRE NOVE

$$20 - 2 = 18$$

$$75 - 12 = 63$$

$$22 - 4 = 18$$

SUPERMATE

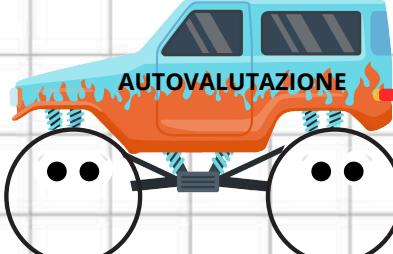
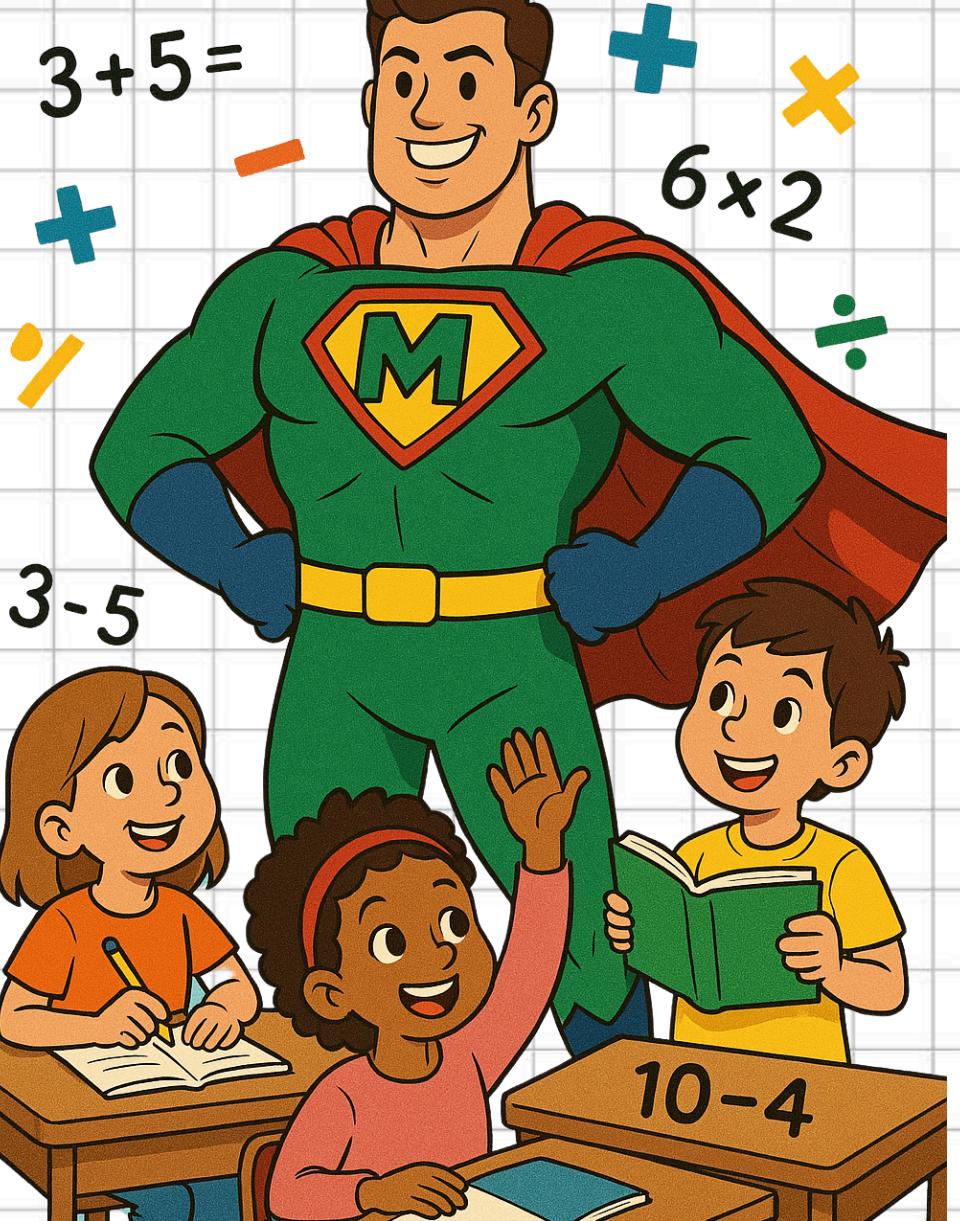
$$3 + 5 =$$

$$+$$

$$\div$$

$$3 - 5$$

$$3 \cdot 5$$



MOLTIPLICAZIONI A CONFRONTO

BIRICUOCOLO*

$$\begin{array}{r}
 +3 \\
 4 \ 5 \times \\
 7 \ 2 = \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1 \quad \boxed{9} \ \boxed{0} \quad + \\
 \boxed{3} \ \boxed{1} \ \boxed{5} \quad = \\
 \hline
 \boxed{3} \ \boxed{2} \ \boxed{4} \ \boxed{0}
 \end{array}$$

$$\begin{array}{r}
 74 \times \\
 36 = \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \boxed{} \ \boxed{4} \ \boxed{4} \ \boxed{4} \quad + \\
 \boxed{2} \ \boxed{2} \ \boxed{2} \quad = \\
 \hline
 \boxed{2} \ \boxed{6} \ \boxed{6} \ \boxed{4}
 \end{array}$$

TRY NOW

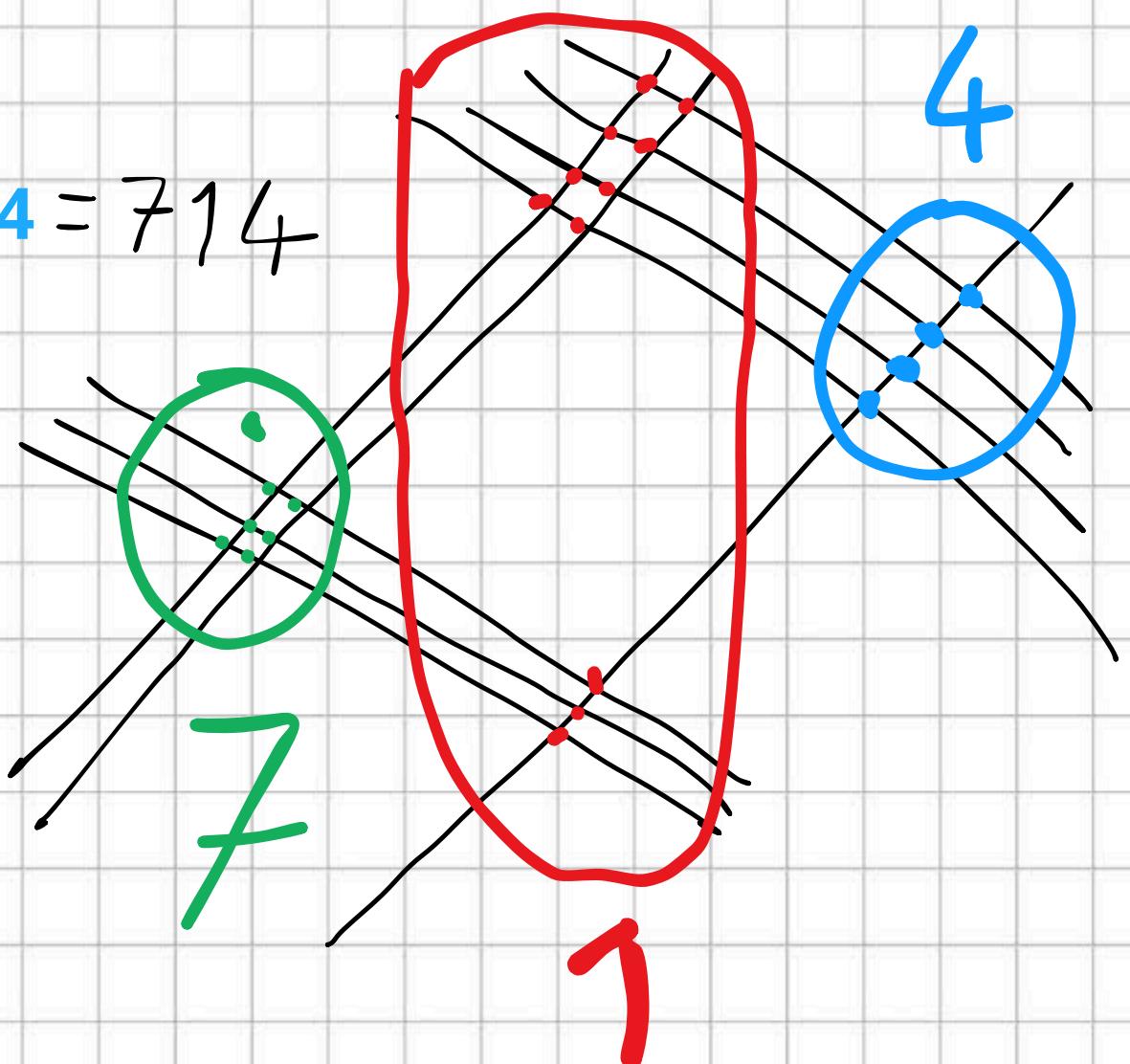
*Il metodo tradizionale, comparso nel XV secolo, era detto metodo per "biricuocolo" in Toscana, "scacchiere" a Venezia, "organetto" a Verona.



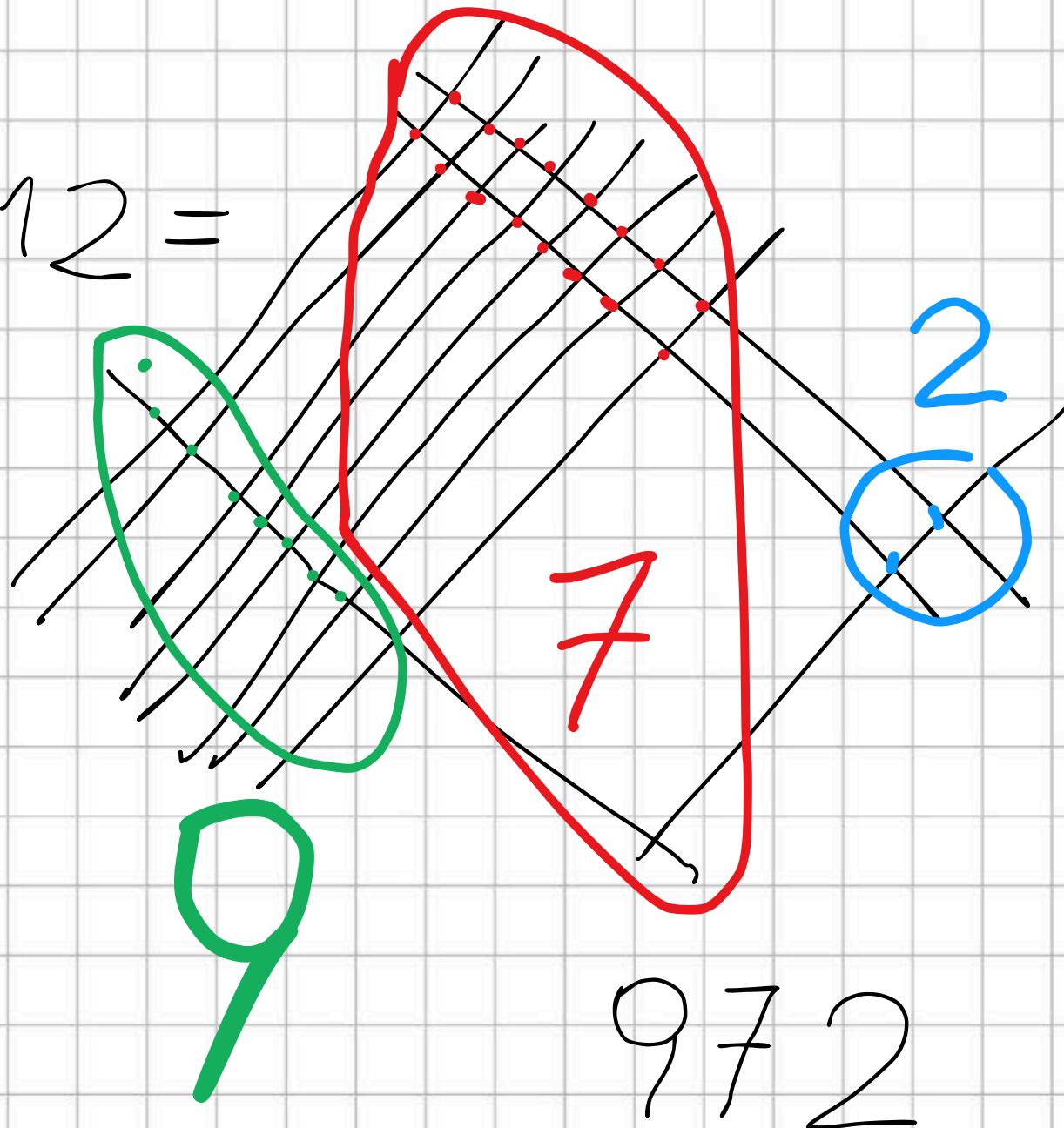
MOLTIPLICAZIONI A CONFRONTO

CINESE

$$21 \times 34 = 714$$



$$81 \times 12 =$$



MATEMAGIE

SCEGLI UN NUMERO E DIMMI IN CHE RIGHE SI TROVA...

TI LEGGERO' NEL PENSIERO!

1	3	5	7	9	11	13	15
2	3	6	7	10	11	14	15
4	5	6	7	12	13	14	15
8	9	10	11	12	13	14	15

SFIDA SUDOKU

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

1		
4		
3	4	
	3	

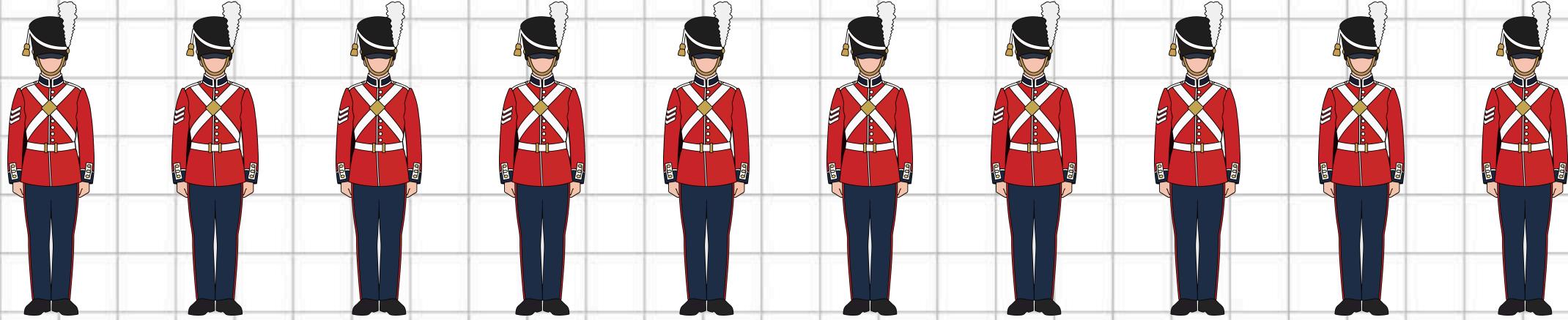
3		
	4	
		1
1		



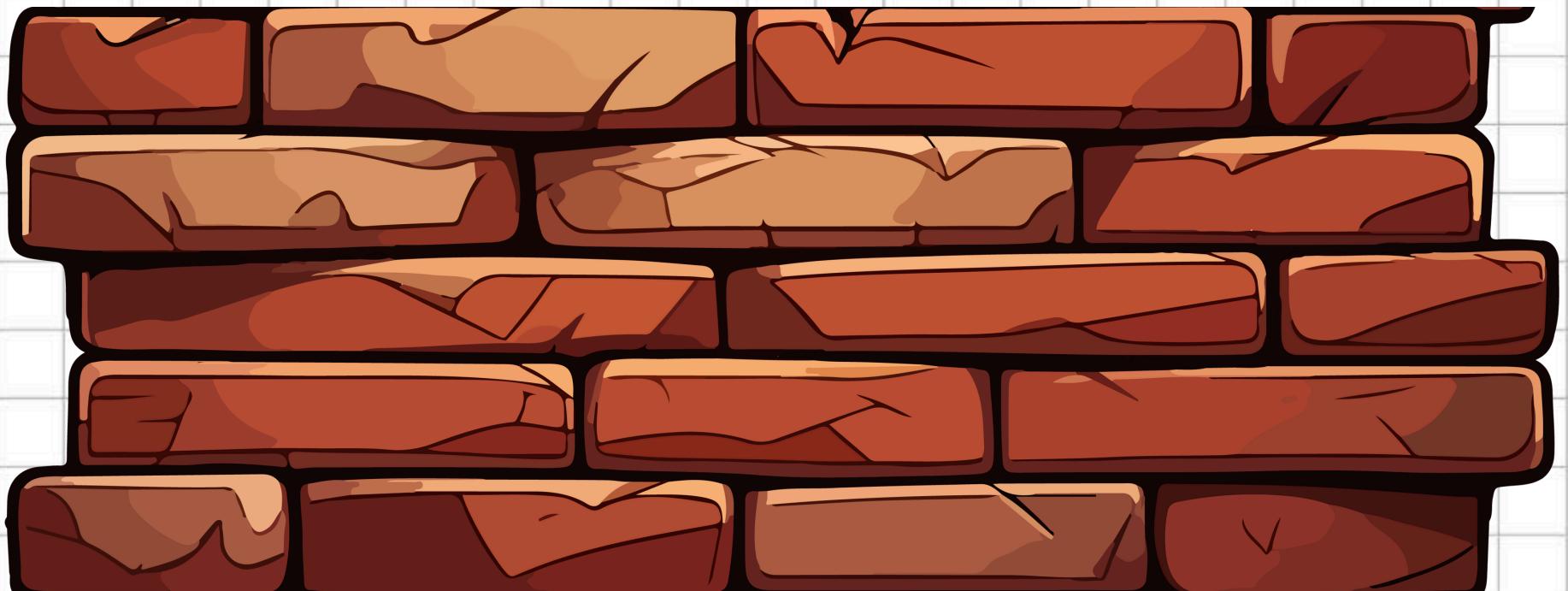
*Escape from
CENTELLO*

MATERIALE MATEMAGIE

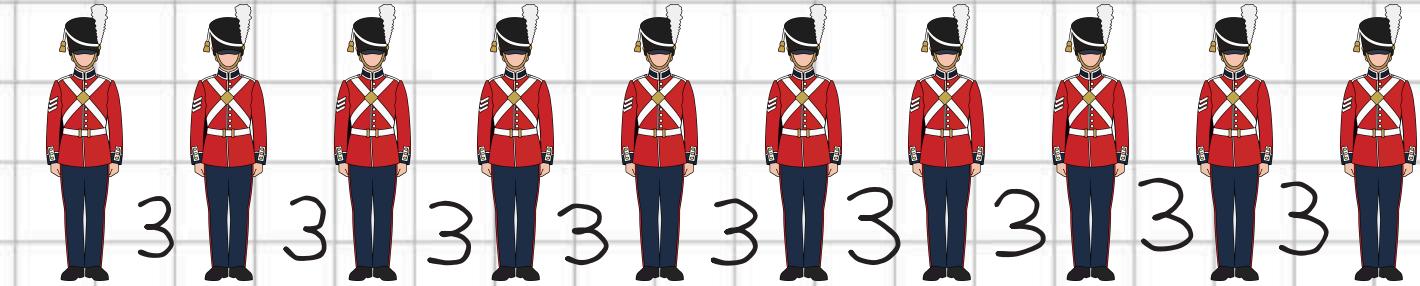
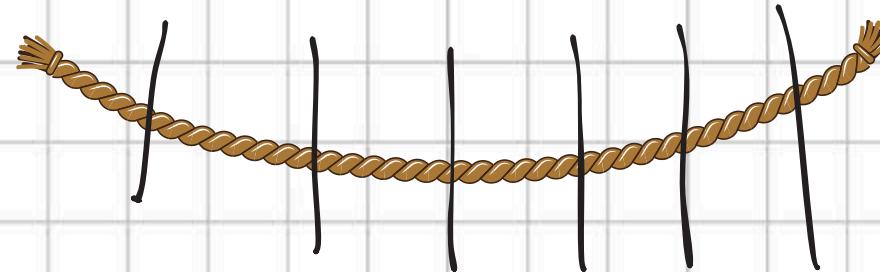
OGNI SOLDATO E' DISTANZIATO DI 3 METRI. QUANTO DISTANO IL PRIMO E L'ULTIMO?



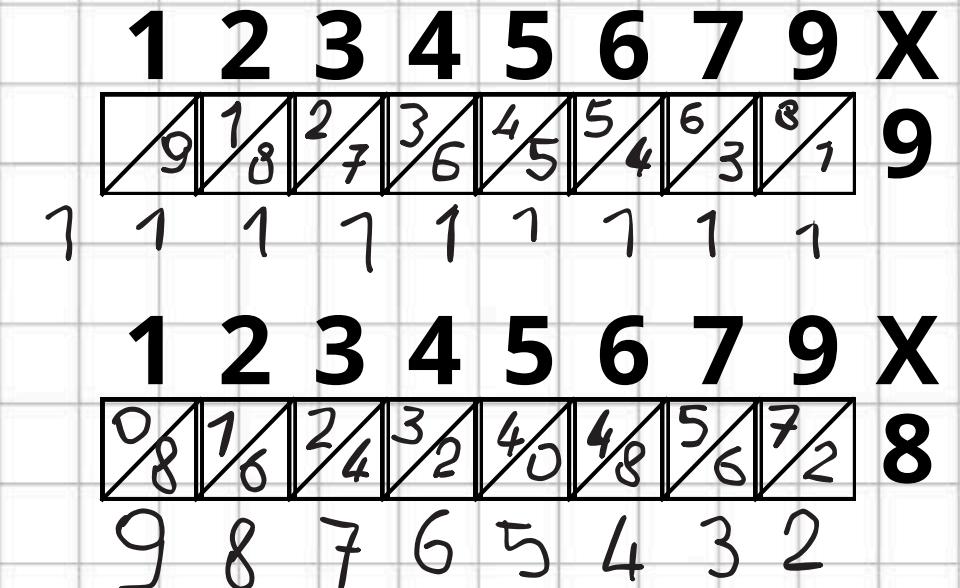
LA LUMACHINA DI GIORNO SALE 3 MATTONCINI, LA SERA SCIVOLA DI DUE. DOPO QUATTRO GIORNI ARRIVERÀ IN CIMA AL MURETTO?



Escape from CENTELLO *SOLUZIONI*



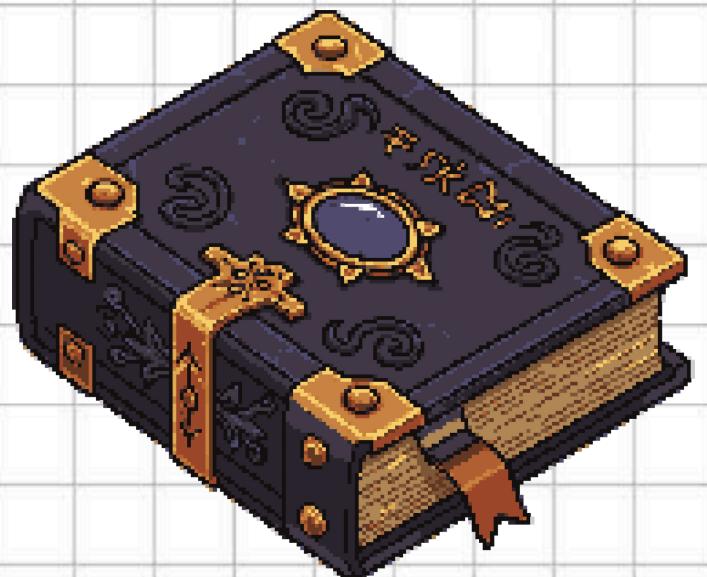
8	1	6
3	5	7
4	9	2



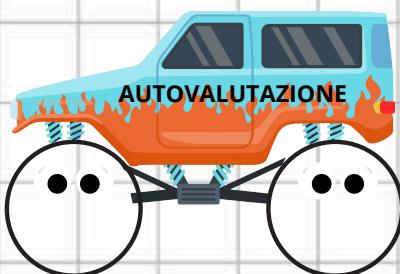
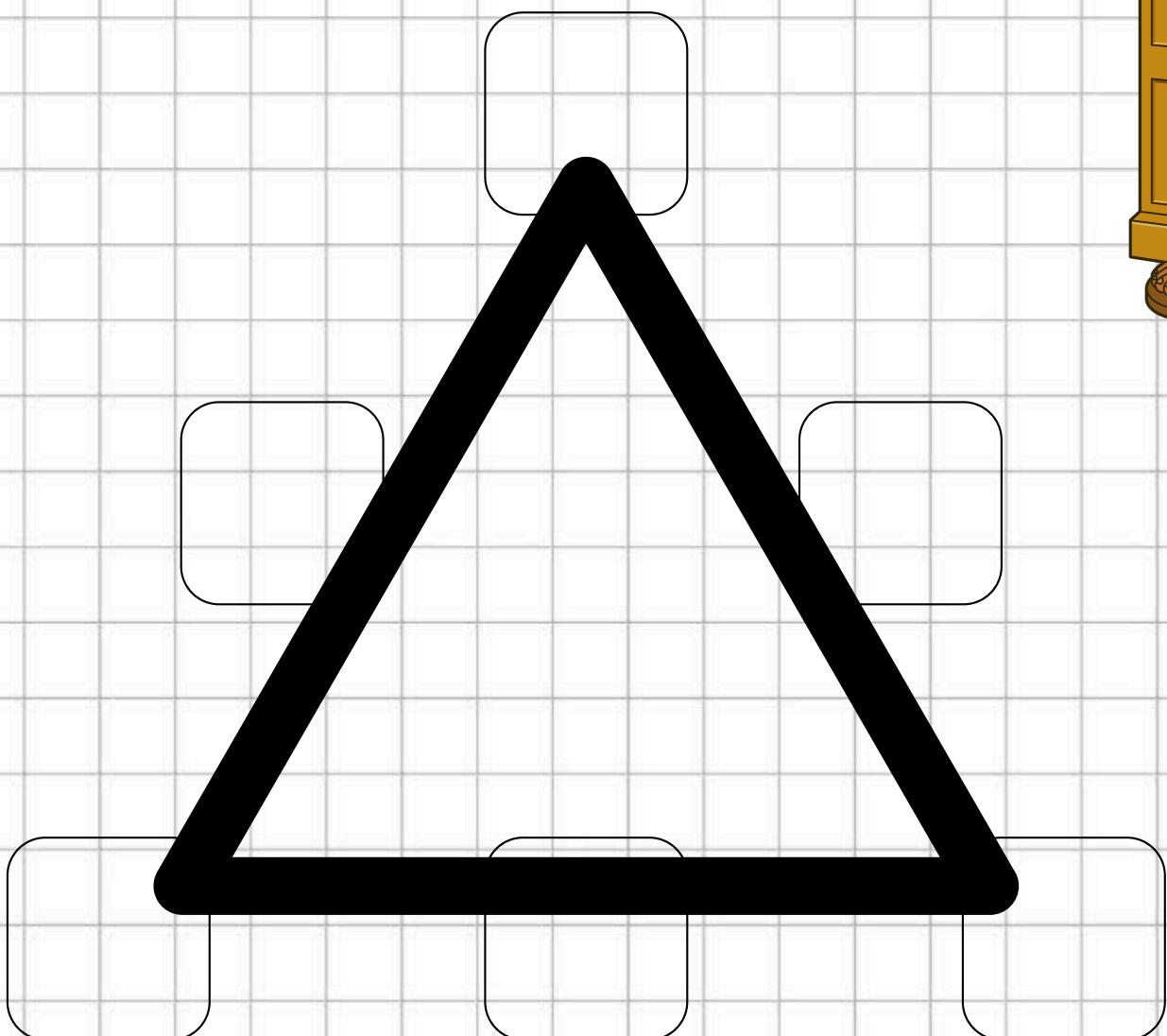
TRIANGOLAZIONI MISTERIOSE

TROVA LA CHIAVE DELL'ENIGMA PER ENTRARE NELLA PIRAMIDE DEL FARAOONE

INSERISCI LE CIFRE DA 1 A 6, UNA VOLTA SOLO PER TROVARE LA COMBINAZIONE DELLA SERRATURA DELLA PORTA DEL FARAOONE



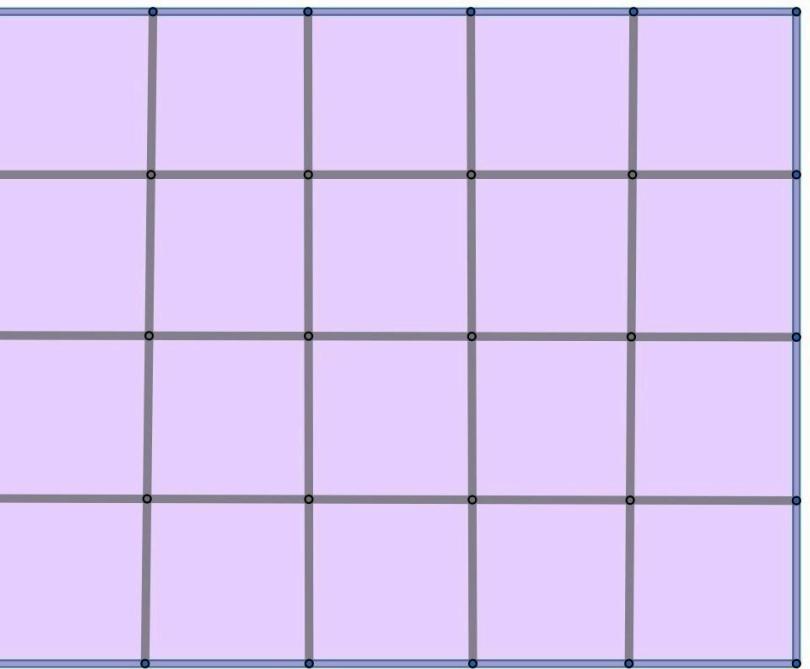
LA SOMMA DI OGNIUNO DEI LATI E' UNDICI



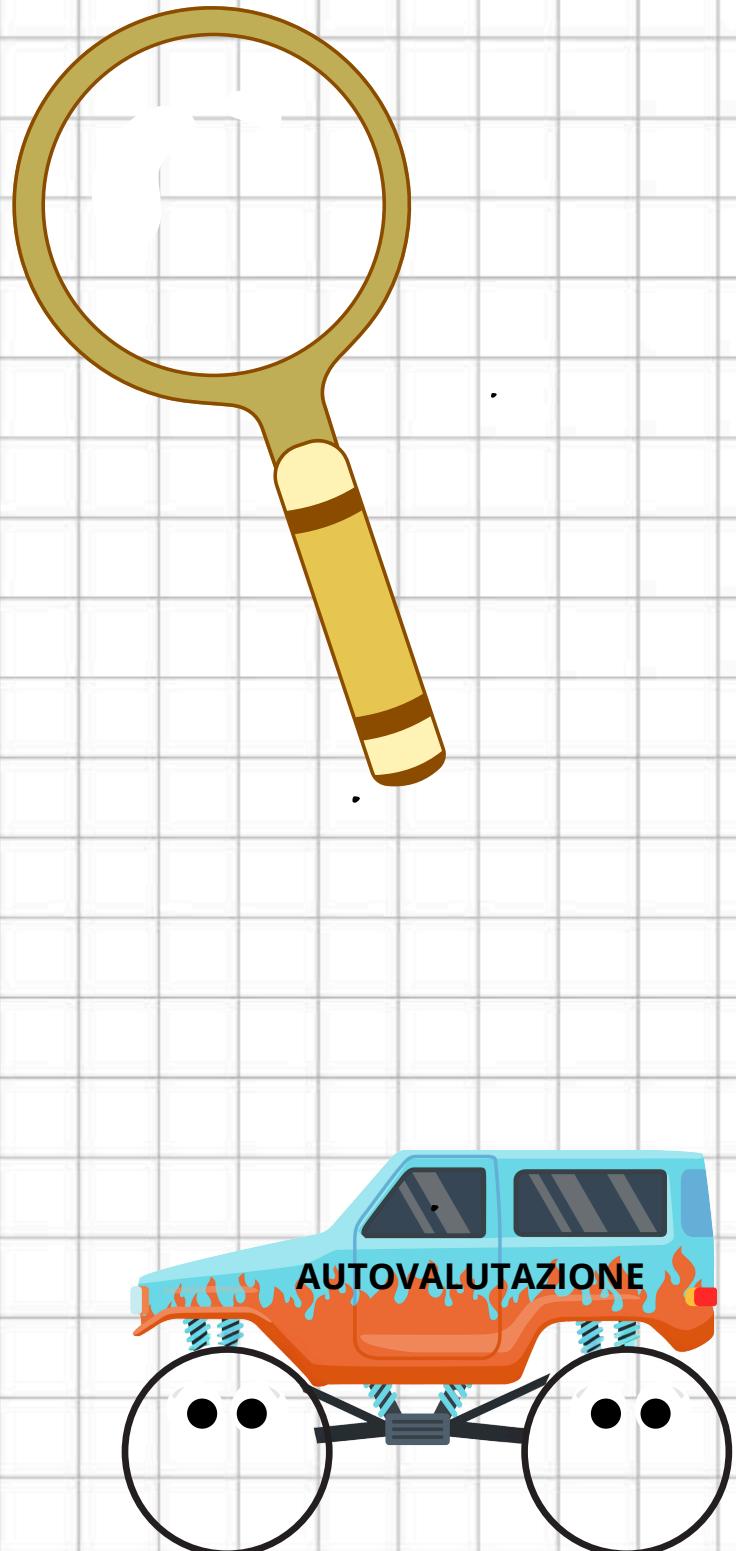
LA STANZA DEL FARAOONE



Scacchiera 5×4
di quadratini uguali



a) Quanti quadrati ci sono?



POTENZA AL QUADRATO

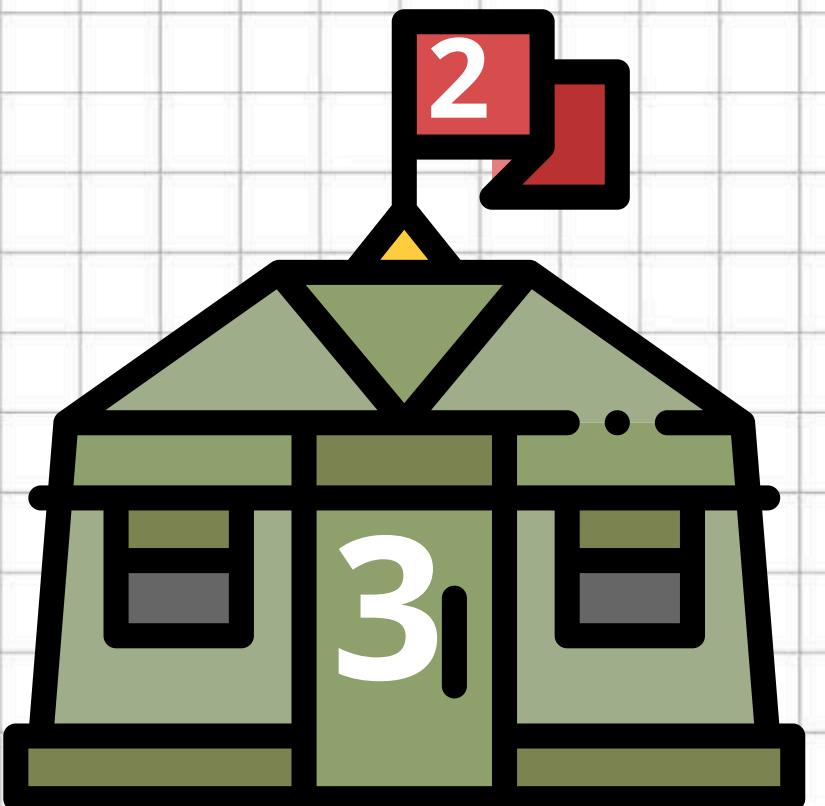
$$1^2 = 1 \times 1$$

$$2^2 = 2 \times 2$$

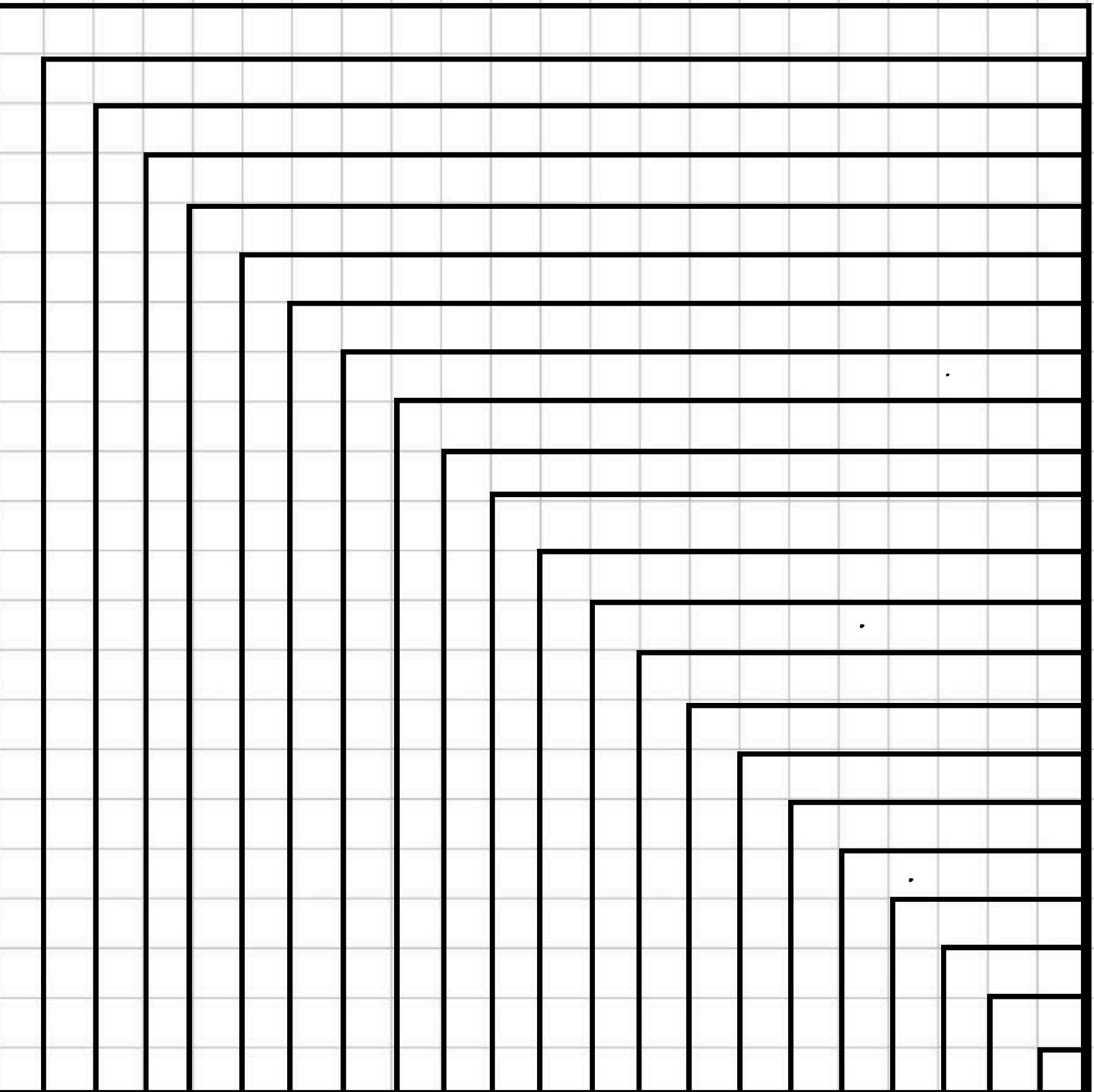
$$3^2 = 3 \times 3$$

$$4^2 = 4 \times 4$$

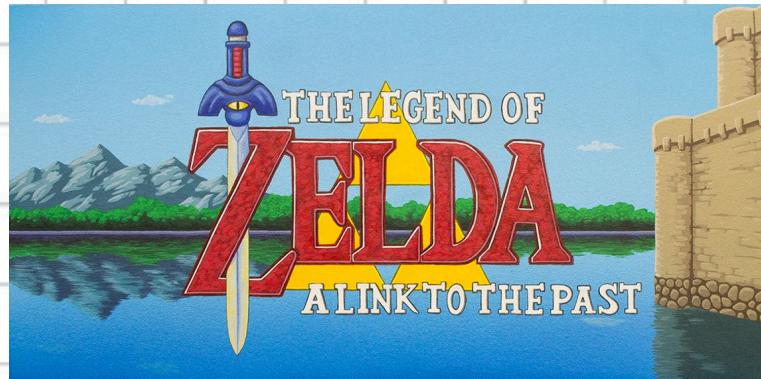
ESPOENTE



BASE



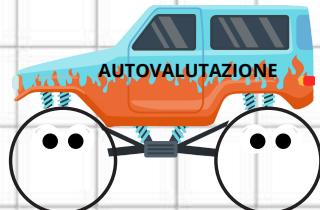
POTENZE BASE 2



00010100100001001010
10001010010101010110
01001100010001010001
01010000101001010011
10011010010000001010
01010010010010010100
10010010101010101100
10101010000100010011
00101000100101001001

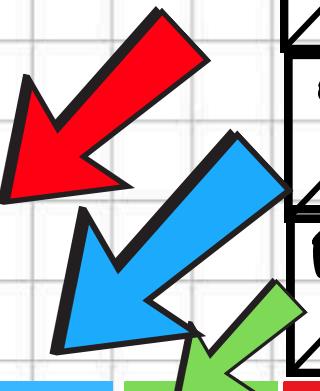
Le prime quaranta potenze di due [modifica | modifica wikitesto]

2^1	=	2	2^{11}	=	2 048	2^{21}	=	2 097 152	2^{31}	=	2 147 483 648
2^2	=	4	2^{12}	=	4 096	2^{22}	=	4 194 304	2^{32}	=	4 294 967 296
2^3	=	8	2^{13}	=	8 192	2^{23}	=	8 388 608	2^{33}	=	8 589 934 592
2^4	=	16	2^{14}	=	16 384	2^{24}	=	16 777 216	2^{34}	=	17 179 869 184
2^5	=	32	2^{15}	=	32 768	2^{25}	=	33 554 432	2^{35}	=	34 359 738 368
2^6	=	64	2^{16}	=	65 536	2^{26}	=	67 108 864	2^{36}	=	68 719 476 736
2^7	=	128	2^{17}	=	131 072	2^{27}	=	134 217 728	2^{37}	=	137 438 953 472
2^8	=	256	2^{18}	=	262 144	2^{28}	=	268 435 456	2^{38}	=	274 877 906 944
2^9	=	512	2^{19}	=	524 288	2^{29}	=	536 870 912	2^{39}	=	549 755 813 888
2^{10}	=	1 024	2^{20}	=	1 048 576	2^{30}	=	1 073 741 824	2^{40}	=	1 099 511 627 776



GIOIOSA MA MOSTRUOSA!!!

1	8 ₁	7 ₃	6 ₂	4 ₁	3 ₁	5 ₁	2 ₂	X
0 4	3 2	2 8	2 4	1 6	1 2	2 0	0 8	4
0 5	4 0	3 5	3 0	2 0	1 5	2 5	1 0	5
0 9	7 2	6 3	5 4	3 6	2 7	4 5	1 8	9
...	?	8 6	1	2	8 3	7 5	6	8



... ? 8 6 1 2 8 3 7 5 6 8

3.612.837.568

8.512.837.568

8.612.827.568

8.612.837.568

8.612.837.567

8.612.847.568

8.602.837.568

8.612.837.368

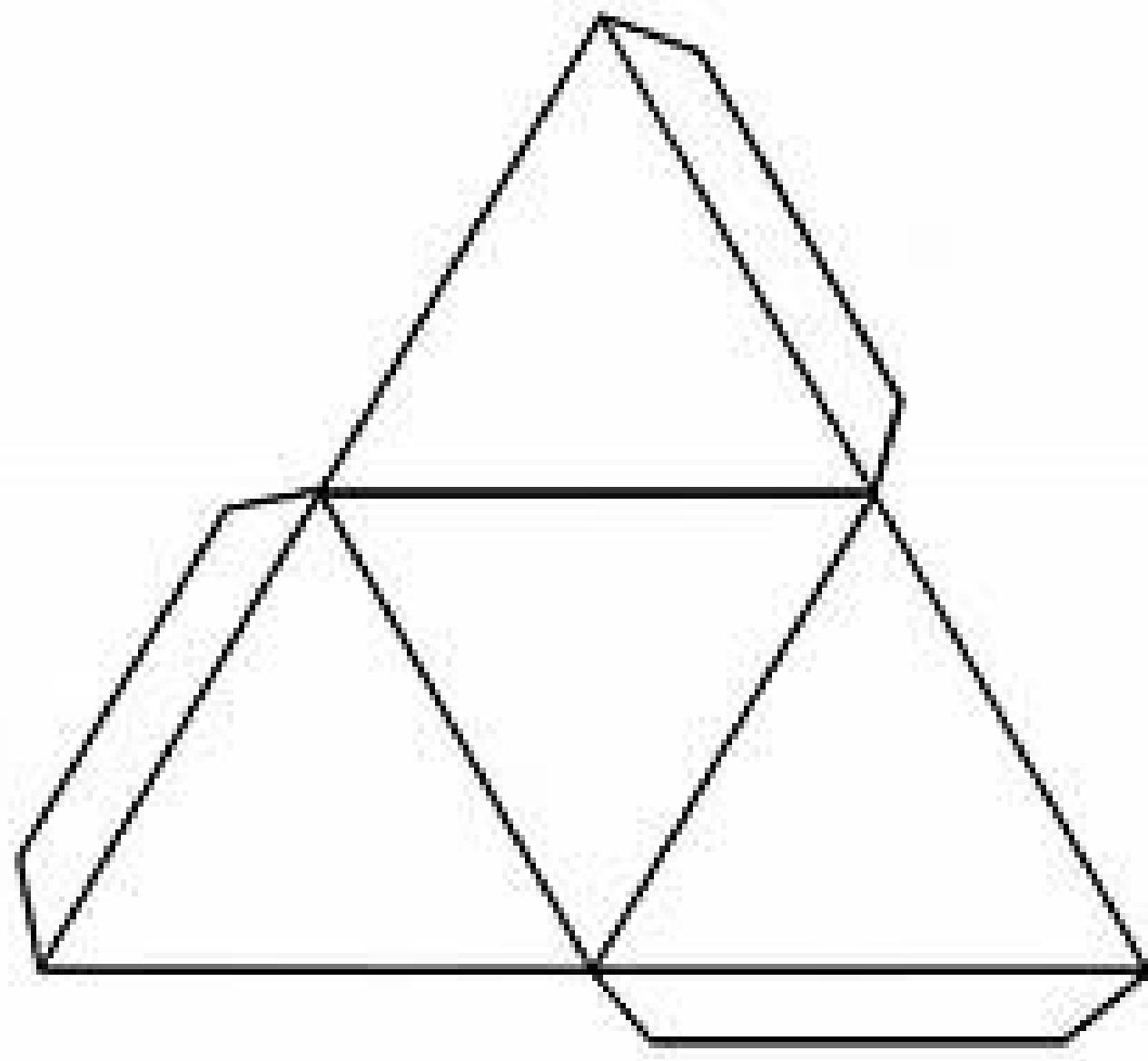


TRY: Now

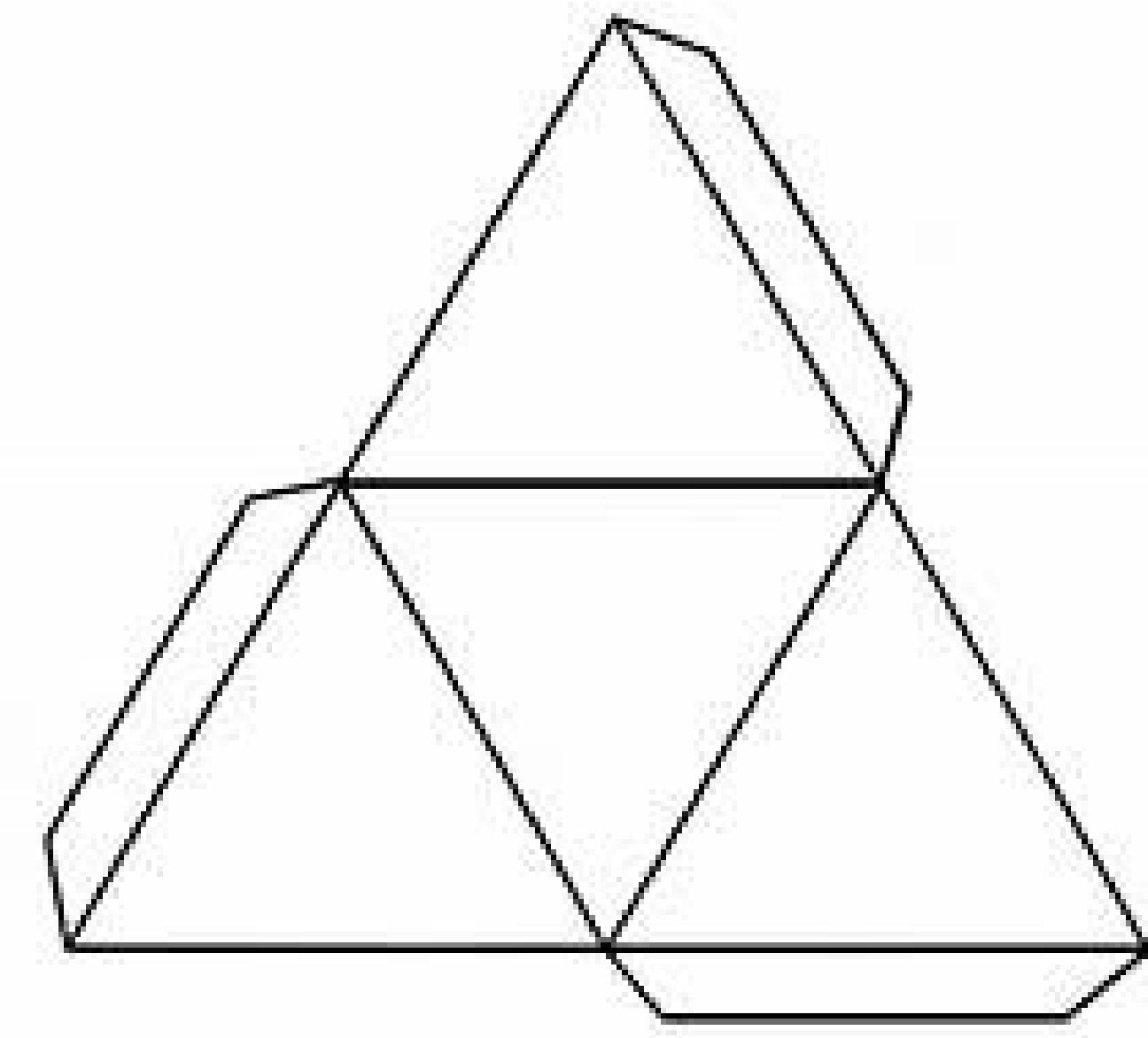
uno di questi
risultati è
giusto!



SVILUPPO PIRAMIDE (TETRAEDRO)

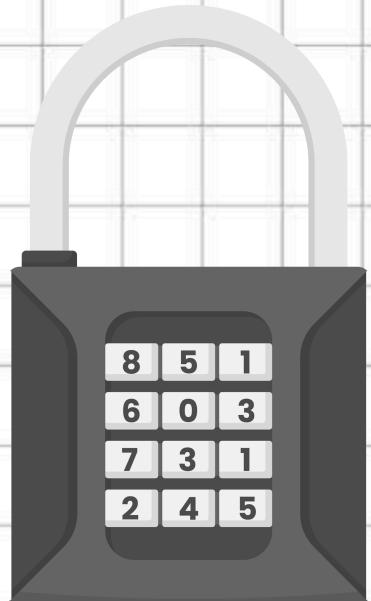
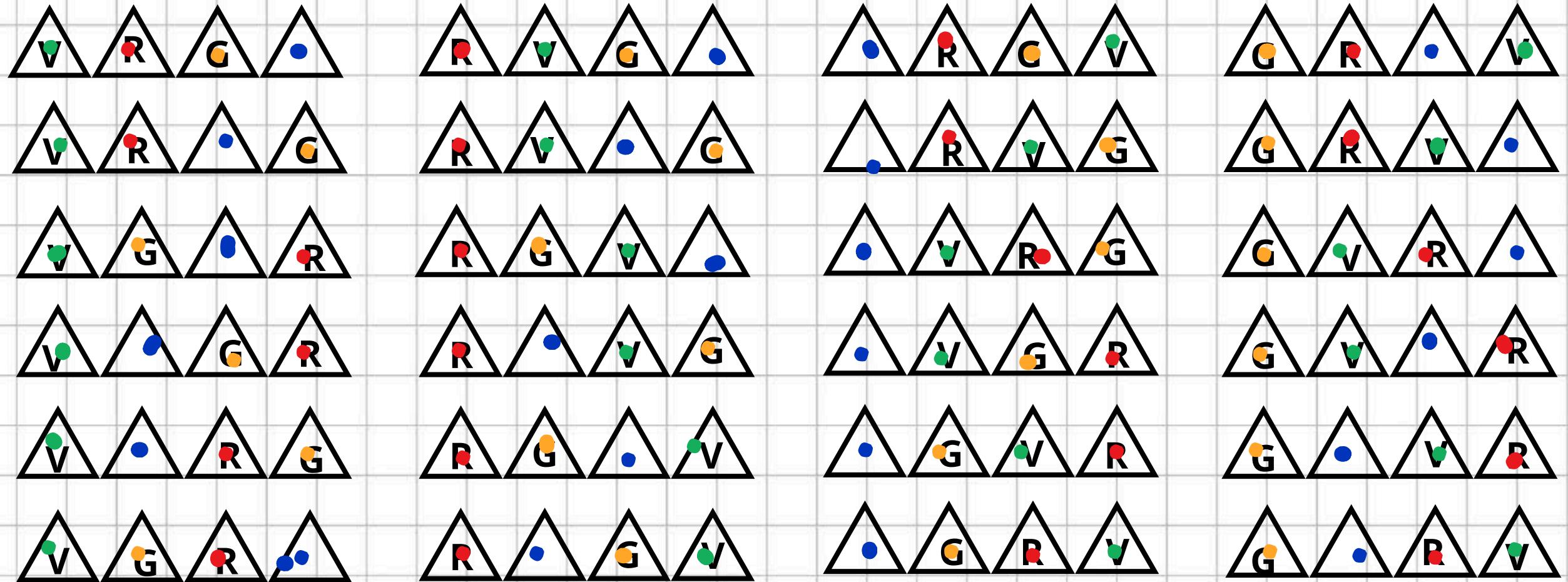


SVILUPPO PIRAMIDE (TETRAEDRO)



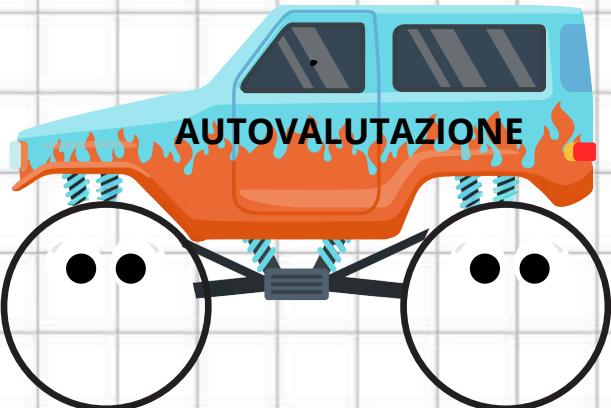
CHE COMBINAZIONE... UN FARAOONE!

FATTORIALE N!



4! =

$$1 \times 2 \times 3 \times 4 = 24$$



FATTORIALI

n	fattoriale	n.ro cifre
1	1	1
2	2	1
3	6	1
4	24	2
5	120	3
6	720	3
7	5.040	4
8	40.320	5
9	362.880	6
10	3.628.800	7
11	39.916.800	8
12	479.001.600	9
13	6.227.020.800	10
14	87.178.291.200	11
15	1.307.674.368.000	13
16	20.922.789.888.000	14
17	355.687.428.096.000	15
18	6.402.373.705.728.000	16
19	121.645.100.408.832.000	18
20	2.432.902.008.176.640.000	19
21	51.090.942.171.709.440.000	20
22	1.124.000.727.777.607.680.000	22
23	25.852.016.738.884.976.640.000	23
24	620.448.401.733.239.439.360.000	24
25	15.511.210.043.330.985.984.000.000	26
26	403.291.461.126.605.635.584.000.000	27
27	10.888.869.450.418.352.160.768.000.000	29
28	304.888.344.611.713.860.501.504.000.000	30
29	8.841.761.993.739.701.954.543.616.000.000	31
30	265.252.859.812.191.058.636.308.480.000.000	33
31	8.222.838.654.177.922.817.725.562.880.000.000	34
32	263.130.836.933.693.530.167.218.012.160.000.000	36
33	8.683.317.618.811.886.495.518.194.401.280.000.000	37
34	295.232.799.039.604.140.847.618.609.643.520.000.000	39

FATTORIALI

n	fattoriale	n.ro cifre
1	1	1
2	2	1
3	6	1
4	24	2
5	120	3
6	720	3
7	5.040	4
8	40.320	5
9	362.880	6
10	3.628.800	7
11	39.916.800	8
12	479.001.600	9
13	6.227.020.800	10
14	87.178.291.200	11
15	1.307.674.368.000	13
16	20.922.789.888.000	14
17	355.687.428.096.000	15
18	6.402.373.705.728.000	16
19	121.645.100.408.832.000	18
20	2.432.902.008.176.640.000	19
21	51.090.942.171.709.440.000	20
22	1.124.000.727.777.607.680.000	22
23	25.852.016.738.884.976.640.000	23
24	620.448.401.733.239.439.360.000	24
25	15.511.210.043.330.985.984.000.000	26
26	403.291.461.126.605.635.584.000.000	27
27	10.888.869.450.418.352.160.768.000.000	29
28	304.888.344.611.713.860.501.504.000.000	30
29	8.841.761.993.739.701.954.543.616.000.000	31
30	265.252.859.812.191.058.636.308.480.000.000	33
31	8.222.838.654.177.922.817.725.562.880.000.000	34
32	263.130.836.933.693.530.167.218.012.160.000.000	36
33	8.683.317.618.811.886.495.518.194.401.280.000.000	37
34	295.232.799.039.604.140.847.618.609.643.520.000.000	39

DIVIDENDI

100	90	80	70	60	50	40	30	20	10	0	10
90	81	72	63	54	45	36	27	18	9	0	9
80	72	64	56	48	40	32	24	16	8	0	8
70	63	56	49	42	35	28	21	14	7	0	7
60	54	48	42	36	30	24	18	12	6	0	6
50	45	40	35	30	25	20	15	10	5	0	5
40	36	32	28	24	20	16	12	8	4	0	4
30	27	24	21	18	15	12	9	6	3	0	3
20	18	16	14	12	10	8	6	4	2	0	2
10	9	8	7	6	5	4	3	2	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0
10	9	8	7	6	5	4	3	2	1	0	X

QUOTIO (PRECISO) QUOTIENTE (RESTO)

DIVIDENDI

100	90	80	70	60	50	40	30	20	10	0	10
90	81	72	63	54	45	36	27	18	9	0	9
80	72	64	56	48	40	32	24	16	8	0	8
70	63	56	49	42	35	28	21	14	7	0	7
60	54	48	42	36	30	24	18	12	6	0	6
50	45	40	35	30	25	20	15	10	5	0	5
40	36	32	28	24	20	16	12	8	4	0	4
30	27	24	21	18	15	12	9	6	3	0	3
20	18	16	14	12	10	8	6	4	2	0	2
10	9	8	7	6	5	4	3	2	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0
10	9	8	7	6	5	4	3	2	1	0	X

DIVISORI

DIVISORI

DIVISIONE TABELLARE

$$55 : 7 = 7 \text{ R } 6$$

$$47 : 6 = 7 \text{ R } 5$$

$$45 : 5 = 9$$

$$40 : 4 = 10$$

$$93 : 9 = 10 \text{ R } 3$$

$$27 : 3 = 9$$

$$43 : 6 = 7 \text{ R } 1$$

$$56 : 7 = 8$$

$$63 : 9 = 7$$

$$74 : 10 = 7 \text{ R } 4$$

DIVIDENDI

100	90	80	70	60	50	40	30	20	10	0	10
90	81	72	63	54	45	36	27	18	9	0	9
80	72	64	56	48	40	32	24	16	8	0	8
70	63	56	49	42	35	28	21	14	7	0	7
60	54	48	42	36	30	24	18	12	6	0	6
50	45	40	35	30	25	20	15	10	5	0	5
40	36	32	28	24	20	16	12	8	4	0	4
30	27	24	21	18	15	12	9	6	3	0	3
20	18	16	14	12	10	8	6	4	2	0	2
10	9	8	7	6	5	4	3	2	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0

DIVISORI

QUOTIO (PRECISO) QUOTIENTE (RESIDUO)



CHUNKING METHOD (METODO DEI MULTIPLI)

Dndo	Dvsr	52	21		530	80	
Rst	Quto	10	2		50	6	
	Qznte						

785	100
85	7

x_2	x_3	x_4	42	53	4
x_5	x_6	x_7	5	6	7
x_8	x_9	x_{10}	8	9	10

160	240	320
400	480	7

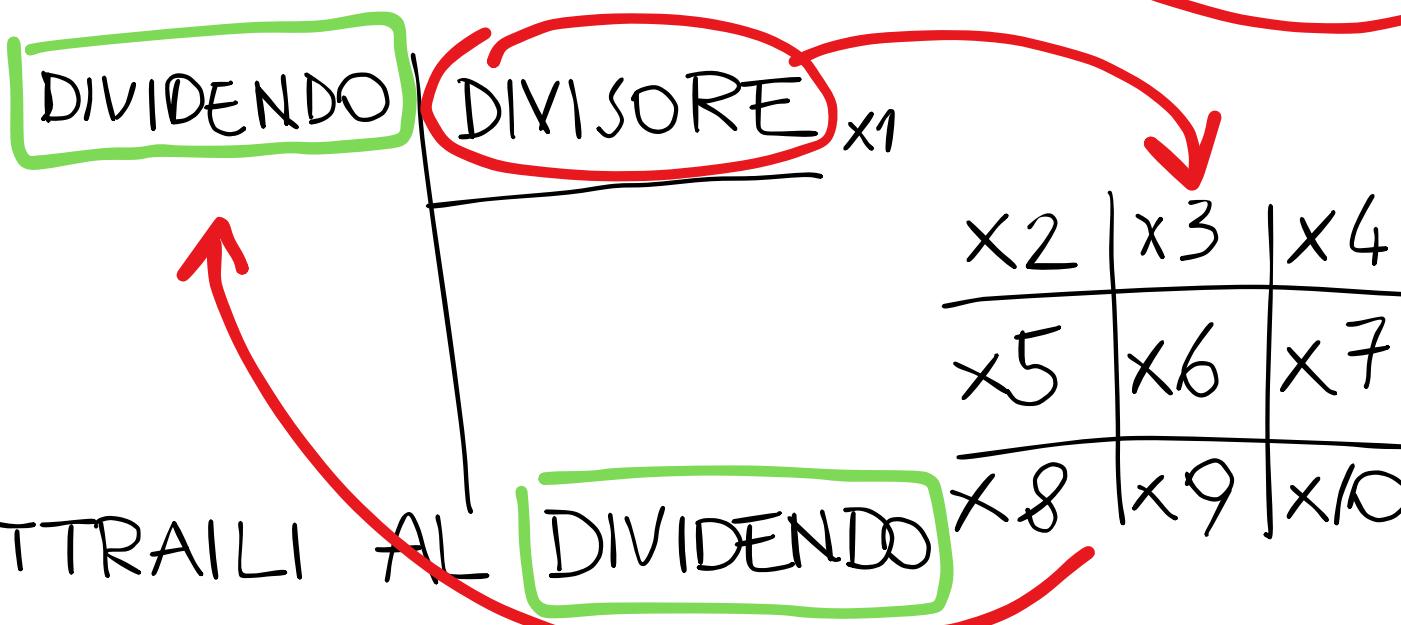
200	300	400
500	600	700

~~800~~ ~~700~~ ~~1000~~



CHUNKING METHOD (METODO DEI MULITPLI)

1) TROVA I MULITPLI DEL DIVISORE



$$\begin{array}{r}
 361 \\
 210 \\
 \hline
 151
 \end{array}$$

21

10

7

4

17

x2	x3	x4
x5	x6	x7
x8	x9	x10

$x_1 = 21$

$x_2 = 42$

$x_3 = 63$

$x_4 = 84$

$x_5 = 105$

$x_6 = 126$

$x_7 = 147$

$x_8 = 168$

$x_9 = 189$

$x_{10} = 210$

$$\begin{array}{r}
 2513 \\
 1010 \\
 \hline
 1503
 \end{array}$$

101

10

10

4

493

$$\begin{array}{r}
 252 \\
 303 \\
 \hline
 505
 \end{array}$$

101

10

10

808

909

100

CHUNKING METHOD (METODO DEI MULTIPLI)

$$\begin{array}{r|l} 30 & 6 \\ \hline & 5 \end{array}$$

$$\begin{array}{r|l} 52 & 7 \\ \hline 3 & 7 \end{array}$$

$$\begin{array}{r|l} 75 & 8 \\ \hline 3 & 9 \end{array}$$

$$\begin{array}{r|l} 35 & 9 \\ \hline 8 & 3 \end{array}$$

DIVIDENDI										
100	90	80	70	60	50	40	30	20	10	0
90	81									
80	72	56	48	40	32	24	16	8	0	8
70	63	49	42	34	28	21	14	7		7
60	54	44	36	30	24	18	12	6	0	6
50	45	40	30	25	20	15	10	5	0	5
40	36	32	24	20	16	12	8	4	0	4
30	27	24	18	15	12	9	6	3	0	3
20	18	16	12	10	8	6	4	2	0	2
10	9	8	7	6	5	4	3	2	1	1
0	0	0	0	0	0	0	0	0	0	0
10	9	8	7	6	5	4	3	2	1	0
										X

DIVISORI

$$\begin{array}{r|l} 275 & 10 \\ \hline 175 & 10) \\ 100 & 27 \\ 75 & \\ 50 & 7 \\ 25 & \\ 5 & \end{array}$$

$$\begin{array}{r|l} 83 & 12 \\ \hline 11 & 6 \end{array}$$

$$\begin{array}{r|l} 125 & 23 \\ \hline 10 & 5 \end{array}$$

$$\begin{array}{r|l} 250 & 31 \\ \hline 2 & 8 \end{array}$$

$$\begin{array}{r|l} 2513 & 101 \\ \hline & \end{array}$$

$$\begin{array}{r|l} 20 & 30 & 40 \\ \hline 50 & 60 & 70 \\ \hline 80 & 90 & 100 \end{array}$$

X X X

$$\begin{array}{r|l} 24 & 36 & 48 \\ \hline 60 & 72 & 84 \\ \hline 96 & 108 & 120 \end{array}$$

X X X

$$\begin{array}{r|l} 46 & 69 & 92 \\ \hline 115 & 128 & 161 \\ \hline 184 & 207 & 235 \end{array}$$

X X X

$$\begin{array}{r|l} 62 & 93 & 124 \\ \hline 155 & 186 & 217 \\ \hline 248 & 279 & 310 \end{array}$$

X X X

$$\begin{array}{r|l} 2 & & 4 \\ \hline 5 & & 7 \\ \hline 8 & & 10 \end{array}$$



ENIGMI



Braintest

$$9 = 90$$

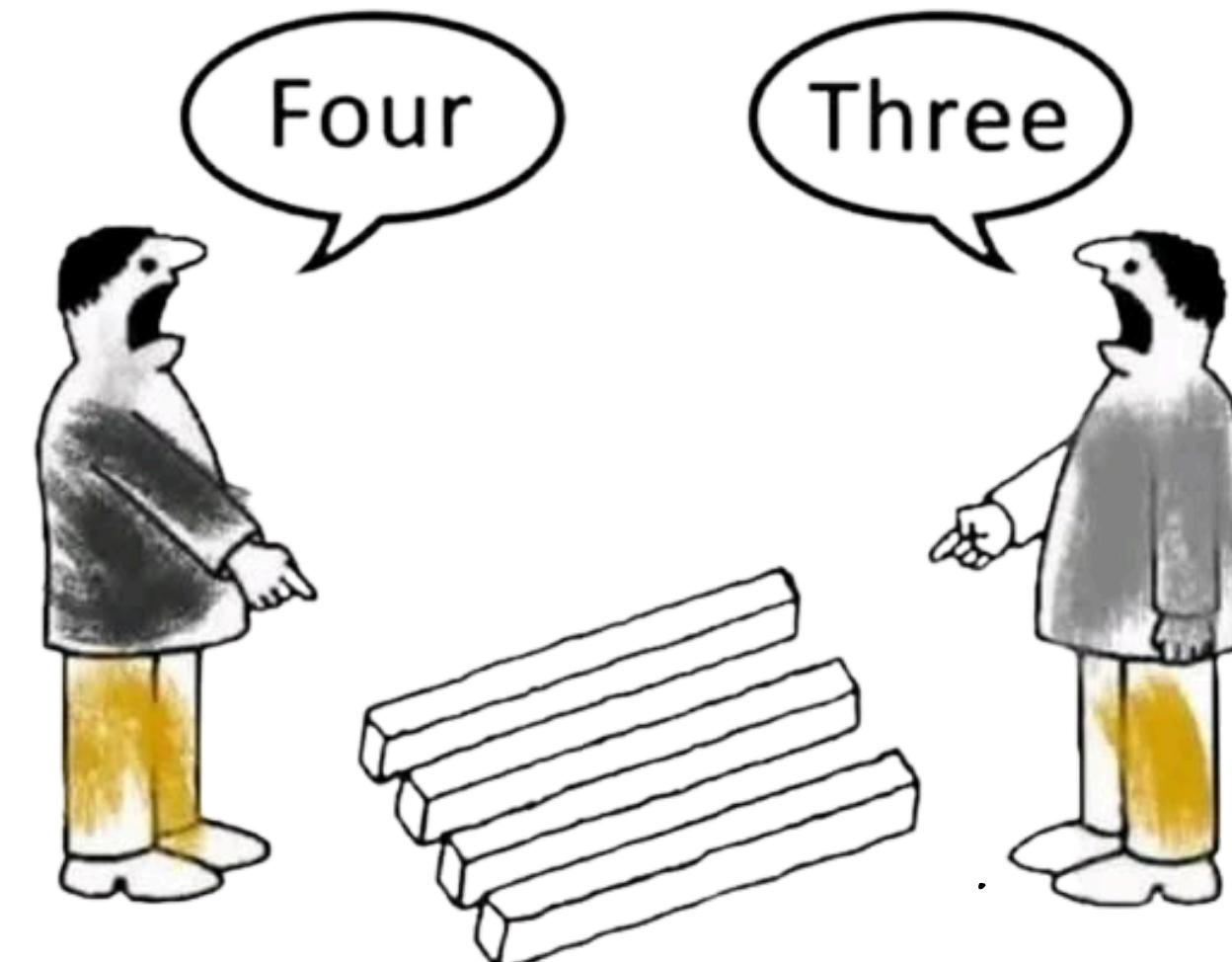
$$8 = 72$$

$$7 = 56$$

$$6 = 42$$

$$3 = ?$$

This is really confusing!!



CHUNKING METHOD (METODO DEI MULTIPLI)

$$\begin{array}{c|c} 48 & 12 \\ \hline & 4 \end{array}$$

$$\begin{array}{c|c} 96 & 17 \\ \hline 11 & 5 \end{array}$$

$$\begin{array}{c|c} 73 & 10 \\ \hline 3 & 7 \end{array}$$

$$\begin{array}{c|c} & \\ \hline & \\ \hline & \\ \hline & \\ \hline & \end{array}$$

$$\begin{array}{c|c} 253 & 50 \\ \hline 3 & 5 \end{array}$$

$$\begin{array}{c|c} 198 & 20 \\ \hline 18 & 9 \\ \hline 100 & 10 \\ \hline 100 & 3 \end{array}$$

$$\begin{array}{c|c} & \\ \hline & \\ \hline & \\ \hline & \\ \hline & \end{array}$$

