

N°1

$\begin{array}{c} 7 \\ \times 6 \\ \hline 4 \end{array}$	$+ 2 = 9$	$\begin{array}{c} 1 \\ + 5 \\ \hline 1 \end{array}$	$\begin{array}{c} 7 \\ + 2 \\ \hline 1 \end{array}$	$= 9$	$\begin{array}{c} 6 \\ \times 6 \\ \hline 5 \end{array}$
$\begin{array}{c} 2 \\ - 2 \\ \hline 0 \end{array}$	$\begin{array}{c} 3 \\ + 1 \\ \hline 0 \end{array}$	$\begin{array}{c} 7 \\ - 1 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 8 \\ + 1 \\ \hline 1 \end{array}$	$\begin{array}{c} 0 \\ + 6 \\ \hline 6 \end{array}$
$\begin{array}{c} 4 \\ + 2 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 7 \\ - 1 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 8 \\ + 1 \\ \hline 1 \end{array}$	$\begin{array}{c} 0 \\ + 6 \\ \hline 6 \end{array}$
$\begin{array}{c} 0 \\ + 6 \\ \hline 6 \end{array}$	$\begin{array}{c} 3 \\ + 1 \\ \hline 4 \end{array}$	$\begin{array}{c} 7 \\ - 1 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 8 \\ + 1 \\ \hline 1 \end{array}$	$\begin{array}{c} 0 \\ + 6 \\ \hline 6 \end{array}$

N°2

$\begin{array}{c} 4 \\ + 9 \\ \hline 1 \end{array}$	$- 3 = 1$	$\begin{array}{c} 7 \\ + 5 \\ \hline 1 \end{array}$	$\begin{array}{c} 7 \\ - 4 \\ \hline 1 \end{array}$	$= 3$	$\begin{array}{c} 6 \\ \times 6 \\ \hline 1 \end{array}$
$\begin{array}{c} 3 \\ - 3 \\ \hline 0 \end{array}$	$\begin{array}{c} 2 \\ + 6 \\ \hline 3 \end{array}$	$\begin{array}{c} 6 \\ + 3 \\ \hline 3 \end{array}$	$= 9$	$\begin{array}{c} 6 \\ + 3 \\ \hline 3 \end{array}$	$\begin{array}{c} 6 \\ \times 6 \\ \hline 5 \end{array}$
$\begin{array}{c} 2 \\ + 4 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 6 \\ + 3 \\ \hline 3 \end{array}$	$= 9$	$\begin{array}{c} 6 \\ + 3 \\ \hline 3 \end{array}$	$\begin{array}{c} 6 \\ \times 6 \\ \hline 5 \end{array}$
$\begin{array}{c} 0 \\ + 8 \\ \hline 8 \end{array}$	$\begin{array}{c} 6 \\ - 2 \\ \hline 4 \end{array}$	$\begin{array}{c} 6 \\ + 3 \\ \hline 3 \end{array}$	$= 9$	$\begin{array}{c} 6 \\ + 3 \\ \hline 3 \end{array}$	$\begin{array}{c} 6 \\ \times 6 \\ \hline 5 \end{array}$

N°3

$\begin{array}{c} 2 \\ + 9 \\ \hline 1 \end{array}$	$- 1 = 1$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 6 \\ \times 6 \\ \hline 3 \end{array}$
$\begin{array}{c} 1 \\ - 1 \\ \hline 0 \end{array}$	$\begin{array}{c} 1 \\ + 5 \\ \hline 4 \end{array}$	$\begin{array}{c} 9 \\ - 1 \\ \hline 1 \end{array}$	$= 8$	$\begin{array}{c} 8 \\ + 1 \\ \hline 4 \end{array}$	$\begin{array}{c} 0 \\ + 8 \\ \hline 8 \end{array}$
$\begin{array}{c} 1 \\ + 5 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 9 \\ - 1 \\ \hline 1 \end{array}$	$= 8$	$\begin{array}{c} 8 \\ + 1 \\ \hline 4 \end{array}$	$\begin{array}{c} 0 \\ + 8 \\ \hline 8 \end{array}$
$\begin{array}{c} 0 \\ + 8 \\ \hline 8 \end{array}$	$\begin{array}{c} 5 \\ + 3 \\ \hline 8 \end{array}$	$\begin{array}{c} 9 \\ - 1 \\ \hline 1 \end{array}$	$= 8$	$\begin{array}{c} 8 \\ + 1 \\ \hline 4 \end{array}$	$\begin{array}{c} 0 \\ + 8 \\ \hline 8 \end{array}$

N°4

$\begin{array}{c} 8 \\ + 5 \\ \hline 1 \end{array}$	$- 2 = 6$	$\begin{array}{c} 7 \\ + 5 \\ \hline 1 \end{array}$	$\begin{array}{c} 7 \\ - 3 \\ \hline 1 \end{array}$	$= 4$	$\begin{array}{c} 9 \\ + 1 \\ \hline 1 \end{array}$
$\begin{array}{c} 3 \\ - 1 \\ \hline 2 \end{array}$	$\begin{array}{c} 2 \\ + 1 \\ \hline 2 \end{array}$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$\begin{array}{c} 1 \\ + 5 \\ \hline 6 \end{array}$
$\begin{array}{c} 8 \\ - 7 \\ \hline 1 \end{array}$	$= 1$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$\begin{array}{c} 1 \\ + 5 \\ \hline 6 \end{array}$
$\begin{array}{c} 8 \\ - 8 \\ \hline 0 \end{array}$	$\begin{array}{c} 1 \\ + 5 \\ \hline 6 \end{array}$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$= 6$	$\begin{array}{c} 3 \\ + 3 \\ \hline 1 \end{array}$	$\begin{array}{c} 1 \\ + 5 \\ \hline 6 \end{array}$

N°5

$3 + 1 = 4$	$8 - 6 = 2$
$\begin{array}{c} + \\ 7 \\ \hline 1 \end{array}$	$\begin{array}{c} + \\ 9 \\ \hline 1 \end{array}$
$9 - 4 = 5$	$\begin{array}{c} \times \\ 6 \\ \hline 1 \end{array}$
$0 + 3 = 3$	$3 - 1 = 2$
$\begin{array}{c} + \\ 1 \\ \hline \end{array}$	$\begin{array}{c} + \\ 2 \\ \hline \end{array}$
$2 + 4 = 6$	$5 - 3 = 2$
$\begin{array}{c} + \\ 8 \\ \hline 1 \end{array}$	$\begin{array}{c} \times \\ 6 \\ \hline 1 \end{array}$
$3 + 5 = 8$	$3 - 1 = 2$
$0 + 8 = 8$	

N°6

$6 - 4 = 2$	$9 - 4 = 5$
$\begin{array}{c} + \\ 5 \\ \hline 1 \end{array}$	$\begin{array}{c} + \\ 9 \\ \hline 1 \end{array}$
$9 - 0 = 9$	$\begin{array}{c} \times \\ 6 \\ \hline 3 \end{array}$
$1 + 0 = 1$	$8 - 8 = 0$
$\begin{array}{c} + \\ 3 \\ \hline \end{array}$	$\begin{array}{c} - \\ 6 \\ \hline \end{array}$
$3 + 3 = 6$	$8 - 2 = 6$
$\begin{array}{c} + \\ 9 \\ \hline 1 \end{array}$	$\begin{array}{c} \times \\ 6 \\ \hline 3 \end{array}$
$5 + 2 = 7$	$5 + 1 = 6$
$2 - 2 = 0$	

N°7

$4 - 3 = 1$	$6 - 4 = 2$
$\begin{array}{c} + \\ 7 \\ \hline 1 \end{array}$	$\begin{array}{c} + \\ 9 \\ \hline 1 \end{array}$
$9 - 4 = 5$	$\begin{array}{c} \times \\ 6 \\ \hline 1 \end{array}$
$1 - 1 = 0$	$1 + 1 = 2$
$\begin{array}{c} + \\ 1 \\ \hline \end{array}$	$\begin{array}{c} - \\ 1 \\ \hline \end{array}$
$4 + 2 = 6$	$6 - 0 = 6$
$\begin{array}{c} + \\ 8 \\ \hline 1 \end{array}$	$\begin{array}{c} \times \\ 9 \\ \hline 5 \end{array}$
$2 + 6 = 8$	$4 + 0 = 4$
$2 + 0 = 2$	

N°8

$9 - 6 = 3$	$7 - 4 = 3$
$\begin{array}{c} \times \\ 6 \\ \hline 5 \end{array}$	$\begin{array}{c} + \\ 8 \\ \hline 1 \end{array}$
$8 - 3 = 5$	$\begin{array}{c} + \\ 7 \\ \hline 1 \end{array}$
$4 - 3 = 1$	$2 - 2 = 0$
$\begin{array}{c} - \\ 1 \\ \hline \end{array}$	$\begin{array}{c} + \\ 1 \\ \hline \end{array}$
$6 - 2 = 4$	$6 - 3 = 3$
$\begin{array}{c} \times \\ 6 \\ \hline 3 \end{array}$	$\begin{array}{c} \times \\ 8 \\ \hline 1 \end{array}$
$9 - 6 = 3$	$8 - 7 = 1$
$6 - 3 = 3$	

N°9

4	+	4	=	8		2	+	1	=	3
×				+		+				+
7				8	+	1	=	9		9
=				=		=		=		=
2				1		1		1		1
8	-	2	=	6		1	+	1	=	2
4	+	3	=	7		8	-	3	=	5
×				×		+		+		+
7				7	-	0	=	7		5
=				=		=		=		=
2				4		1		1		1
8	+	1	=	9		5	-	5	=	0

N°10

7	-	0	=	7		4	+	3	=	7
×				+		+		×		×
7				6	+	0	=	6		8
=				=		=		=		=
4				1		1		1		5
9	-	6	=	3		0	+	6	=	6
4	+	3	=	7		8	-	1	=	7
+				×		+		×		×
8				7	-	0	=	7		7
=				=		=		=		=
1				4		1		1		4
2	+	7	=	9		5	+	4	=	9

N°11

1	+	3	=	4		3	+	0	=	3
+				+		+		×		×
9				8	+	0	=	8		7
=				=		=		=		=
1				1		1		2		2
0	+	2	=	2		1	-	0	=	1
8	-	6	=	2		3	+	3	=	6
×				+		×		+		+
7				9	-	2	=	7		6
=				=		=		=		=
5				1		2		1		1
6	-	5	=	1		1	+	1	=	2

N°12

2	+	2	=	4		5	+	3	=	8
×				+		+		×		×
7				8	+	1	=	9		7
=				=		=		=		=
1				1		1		5		5
4	-	2	=	2		4	+	2	=	6
7	+	0	=	7		5	-	2	=	3
×				×		+		+		+
7				7	+	1	=	8		8
=				=		=		=		=
4				4		1		1		1
9	-	0	=	9		3	-	2	=	1

N°13

$2 + 6 = 8$	$8 - 3 = 5$
$\times 7$	$\div 7$
$\overline{1}$	$\overline{3}$
$5 + 2 = 7$	
$\div 1$	
$4 - 1 = 3$	$5 + 0 = 5$
$\div 1$	$\div 3$
$5 + 2 = 7$	$2 + 3 = 5$
$\div 7$	$\times 7$
$\overline{1}$	$\overline{3}$
$9 + 0 = 9$	
$\div 6$	
$2 + 1 = 3$	$1 + 4 = 5$

N°14

$7 + 1 = 8$	$6 + 1 = 7$
$\times 6$	$\div 7$
$\overline{4}$	$\overline{4}$
$8 + 1 = 9$	
$\div 1$	
$2 + 4 = 6$	$5 + 4 = 9$
$\overline{0}$	$\div 3$
$3 + 4 = 7$	$7 + 1 = 8$
$\times 7$	$\div 7$
$\overline{2}$	$\overline{1}$
$7 - 3 = 4$	$2 + 1 = 3$
$1 + 3 = 4$	$8 - 8 = 0$

N°15

$9 - 7 = 2$	$5 + 4 = 9$
$\times 7$	$\div 7$
$\overline{6}$	$\overline{6}$
$9 - 3 = 6$	
$\div 1$	
$3 - 2 = 1$	$1 + 2 = 3$
$\overline{0}$	$\div 4$
$2 + 2 = 4$	$1 + 6 = 7$
$\times 7$	$\div 7$
$\overline{1}$	$\overline{4}$
$9 + 0 = 9$	
$4 - 1 = 3$	$0 + 9 = 9$

N°16

$8 - 1 = 7$	$7 - 5 = 2$
$\times 7$	$\div 8$
$\overline{5}$	$\overline{1}$
$9 - 7 = 2$	
$\div 1$	
$6 + 0 = 6$	$4 - 4 = 0$
$\div 5$	$\div 2$
$7 - 5 = 2$	$7 + 2 = 9$
$\times 7$	$\div 4$
$\overline{4}$	$\overline{1}$
$8 - 6 = 2$	
$9 - 9 = 0$	$4 - 1 = 3$

N°17

$\begin{array}{c} 2 \\ + \\ 8 \\ \hline 1 \end{array}$	$7 = 9$	$\begin{array}{c} 6 \\ + \\ 1 \\ \hline 1 \end{array}$	$+ 3 = 9$	$\begin{array}{c} 6 \\ + \\ 1 \\ \hline 1 \end{array}$	$- 4 = 2$	$\begin{array}{c} 7 \\ \times \\ 7 \\ \hline 1 \end{array}$
$\begin{array}{c} 0 \\ + \\ 5 \\ \hline 4 \end{array}$	$= 5$	$\begin{array}{c} 5 \\ - \\ 1 \\ \hline 1 \end{array}$	$= 4$	$\begin{array}{c} 3 \\ + \\ 1 \\ \hline 7 \end{array}$	$= 4$	$\begin{array}{c} 8 \\ - \\ 1 \\ \hline 1 \end{array}$
$\begin{array}{c} 3 \\ + \\ 1 \\ \hline 2 \end{array}$	$= 4$	$\begin{array}{c} 7 \\ - \\ 2 \\ \hline 4 \end{array}$	$= 5$	$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 1 \end{array}$
$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 1 \end{array}$	$= 3$	$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 9 \\ - \\ 6 \\ \hline 1 \end{array}$

N°18

$\begin{array}{c} 7 \\ + \\ 4 \\ \hline 1 \end{array}$	$- 3 = 4$	$\begin{array}{c} 8 \\ + \\ 1 \\ \hline 1 \end{array}$	$- 4 = 4$	$\begin{array}{c} 9 \\ + \\ 1 \\ \hline 1 \end{array}$	$- 2 = 7$	$\begin{array}{c} 7 \\ \times \\ 7 \\ \hline 4 \end{array}$
$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 2 \end{array}$	$= 2$	$\begin{array}{c} 3 \\ + \\ 6 \\ \hline 4 \end{array}$	$= 9$	$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 7 \end{array}$	$= 4$	$\begin{array}{c} 1 \\ + \\ 2 \\ \hline 1 \end{array}$
$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 4 \end{array}$	$= 4$	$\begin{array}{c} 1 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 3$	$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 4 \end{array}$	$= 4$	$\begin{array}{c} 1 \\ + \\ 2 \\ \hline 1 \end{array}$
$\begin{array}{c} 9 \\ - \\ 8 \\ \hline 1 \end{array}$	$= 1$	$\begin{array}{c} 0 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 1$	$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 4 \end{array}$	$= 4$	$\begin{array}{c} 1 \\ + \\ 2 \\ \hline 1 \end{array}$

N°19

$\begin{array}{c} 7 \\ + \\ 1 \\ \hline 3 \end{array}$	$= 8$	$\begin{array}{c} 6 \\ - \\ 1 \\ \hline 1 \end{array}$	$= 5$	$\begin{array}{c} 7 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 8$	$\begin{array}{c} 7 \\ - \\ 0 \\ \hline 1 \end{array}$
$\begin{array}{c} 1 \\ + \\ 4 \\ \hline 0 \end{array}$	$= 5$	$\begin{array}{c} 3 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 5$	$\begin{array}{c} 3 \\ + \\ 4 \\ \hline 7 \end{array}$	$= 7$	$\begin{array}{c} 5 \\ + \\ 1 \\ \hline 1 \end{array}$
$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 0 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 3 \\ + \\ 4 \\ \hline 7 \end{array}$	$= 7$	$\begin{array}{c} 5 \\ + \\ 1 \\ \hline 1 \end{array}$
$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 0 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 2$	$\begin{array}{c} 3 \\ + \\ 4 \\ \hline 7 \end{array}$	$= 7$	$\begin{array}{c} 5 \\ + \\ 1 \\ \hline 1 \end{array}$

N°20

$\begin{array}{c} 2 \\ + \\ 9 \\ \hline 1 \end{array}$	$+ 5 = 7$	$\begin{array}{c} 3 \\ + \\ 1 \\ \hline 1 \end{array}$	$+ 6 = 9$	$\begin{array}{c} 1 \\ + \\ 1 \\ \hline 1 \end{array}$	$+ 6 = 7$	$\begin{array}{c} 7 \\ \times \\ 7 \\ \hline 4 \end{array}$
$\begin{array}{c} 1 \\ - \\ 1 \\ \hline 1 \end{array}$	$= 0$	$\begin{array}{c} 0 \\ + \\ 9 \\ \hline 6 \end{array}$	$= 9$	$\begin{array}{c} 5 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 7$	$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 1 \end{array}$
$\begin{array}{c} 1 \\ - \\ 1 \\ \hline 1 \end{array}$	$= 0$	$\begin{array}{c} 0 \\ + \\ 9 \\ \hline 6 \end{array}$	$= 9$	$\begin{array}{c} 5 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 7$	$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 1 \end{array}$
$\begin{array}{c} 1 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 3$	$\begin{array}{c} 1 \\ + \\ 7 \\ \hline 1 \end{array}$	$= 8$	$\begin{array}{c} 5 \\ + \\ 2 \\ \hline 1 \end{array}$	$= 7$	$\begin{array}{c} 7 \\ - \\ 3 \\ \hline 1 \end{array}$

Règles

- ❶ Le Garam est un jeu de logique mathématique à base d'opérations simples.
- ❷ Remplissez chaque case avec un seul chiffre de sorte que chaque ligne et chaque colonne forment une opération correcte.
- ❸ Le résultat d'une opération verticale est un nombre à deux chiffres si deux cases suivent le symbole égal.
- ❹ Exemple : ordre de réalisation possible : (1) (2) (3) ...

$\begin{array}{c} (8) \\ 1 \end{array} + 1 = \begin{array}{c} (6) \\ 2 \end{array}$	$\begin{array}{c} (2) \\ 6 \end{array} - 2 = \begin{array}{c} (3) \\ 4 \end{array}$
$\begin{array}{c} (9) \\ 9 \end{array} \times \begin{array}{c} (5) \\ 7 \end{array} - 3 = \begin{array}{c} (1) \\ 1 \end{array}$	$\begin{array}{c} (4) \\ 2 \end{array} \times \begin{array}{c} (18) \\ 6 \end{array} = \begin{array}{c} (1) \\ 2 \end{array}$
$\begin{array}{c} (10) \\ 0 \end{array} + \begin{array}{c} (7) \\ 4 \end{array} = \begin{array}{c} (1) \\ 4 \end{array}$	$\begin{array}{c} (4) \\ 4 \end{array} - \begin{array}{c} (18) \\ 0 \end{array} = \begin{array}{c} (1) \\ 4 \end{array}$
$\begin{array}{c} (12) \\ 9 \end{array} - \begin{array}{c} (11) \\ 4 \end{array} = \begin{array}{c} (15) \\ 5 \end{array}$	$\begin{array}{c} (17) \\ 4 \end{array} + \begin{array}{c} (19) \\ 1 \end{array} = \begin{array}{c} (20) \\ 5 \end{array}$
$\begin{array}{c} (13) \\ 8 \end{array} \times \begin{array}{c} (15) \\ 9 \end{array} - 3 = \begin{array}{c} (16) \\ 6 \end{array}$	$\begin{array}{c} (17) \\ 4 \end{array} \times \begin{array}{c} (19) \\ 1 \end{array} = \begin{array}{c} (20) \\ 5 \end{array}$
$\begin{array}{c} (13) \\ 7 \end{array} \times \begin{array}{c} (15) \\ 9 \end{array} - 3 = \begin{array}{c} (16) \\ 6 \end{array}$	$\begin{array}{c} (23) \\ 9 \end{array} \times \begin{array}{c} (23) \\ 1 \end{array} = \begin{array}{c} (23) \\ 9 \end{array}$
$\begin{array}{c} (14) \\ 2 \end{array} + 2 = \begin{array}{c} (14) \\ 4 \end{array}$	$\begin{array}{c} (21) \\ 4 \end{array} + 0 = \begin{array}{c} (22) \\ 4 \end{array}$