

Nom :

garam 1-4

Date :

N°1

$\times$ <u>6</u>	$+ 2 = 9$	$+ 5 =$	$+ 2 =$	$\times$ <u>6</u>
<u>1</u>	<u>1</u>		<u>1</u>	
$- = 0$	$3 + =$			
$+ 0 =$	$- 0 =$			
$+ = 6$	$- =$	$+ 8 =$		
<u>1</u>	<u>1</u>	<u>1</u>		
$+ 6 =$	$3 + 1 =$			

N°2

$- 3 =$	$- 4 =$	$\times$ <u>6</u>
$+ 9 =$	$+ 1 =$	<u>1</u>
$- = 0$	$2 + =$	
$+ 1 =$	$- 3 =$	
$+ = 6$	$+ = 9$	$\times$ <u>6</u>
$+ 8 =$	$- =$	

N°3

$- =$	$+ 3 =$	$\times$ <u>6</u>
$+ 9 =$	$+ 8 =$	<u>1</u>
$- = 0$	$1 + =$	
$+ 4 =$	$- 4 =$	
$+ = 6$	$9 - =$	$\times$ <u>6</u>
$+ 3 =$	$+ 3 =$	

N°4

$- 2 =$	$- 3 =$	$+ 9 =$
$+ 5 =$	$- 2 =$	<u>1</u>
$3 - =$	$2 + 1 =$	
$+ 6 =$	$+ 2 =$	
$- = 1$	$3 + =$	$\times$ <u>6</u>
$- 8 =$	$+ 5 =$	

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N°5

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

N°6

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

N°7

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

N°8

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

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Nº9

$\begin{array}{r} + 4 = \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} + 1 = \\ + \\ \hline \end{array}$
$\begin{array}{r} + \\ \hline 1 \end{array}$	$\begin{array}{r} + 1 = \\ + \\ \hline 9 \\ \hline 1 \end{array}$
$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} 1 + \\ \hline \end{array}$
$\begin{array}{r} = 6 \\ + \end{array}$	$\begin{array}{r} = \\ + \end{array}$

[illegible]

N°10

$\begin{array}{r} \times \\ 7 \\ \hline \end{array}$	$\begin{array}{r} - 0 = 7 \\ + \\ \hline 1 \end{array}$	$+ 0 =$	$\begin{array}{r} + \\ + \\ \hline 1 \end{array}$
$\begin{array}{r} - \\ \hline \end{array}$			$\begin{array}{r} 0 + \\ \hline \end{array}$

	3	
+		= 7
+ 8		x 7

- 0 =

+ 7 =

N°11

$\begin{array}{r} +3= \\ +9 \\ \hline +1 \end{array}$	$\begin{array}{r} +0= \\ + \\ \hline +1 \end{array}$
$\begin{array}{r} + \\ +0= \\ \hline +1 \end{array}$	$\begin{array}{r} \times 7 \\ \hline 1 \end{array}$
$\begin{array}{r} + \\ + \\ \hline +2 \end{array}$	$\begin{array}{r} 1- \\ \hline + \end{array}$

	+ 4 =				+ 3 =	
8 × 7 = 	-	=	+	- 2 =	3 × 7 = 	+
			= 1			= 1
	- 5 =				+ 1 =	

N°12

$\begin{array}{r} + 2 = \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline 1 \end{array} + 1 =$	$\begin{array}{r} 5 + 3 = \\ + \\ \hline 1 \end{array}$	$\begin{array}{r} \times 7 \\ \hline \end{array}$
$- = 2$		$+ =$	

	-	=			+0	=	
	2				5-	=	
+7		=7			+8		
x		x	+1=				
7					1		1
-		=			3-2=		

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N°13

$+ 6 =$ $\begin{array}{r} \times 7 \\ \hline \end{array}$	$- 3 =$ $\begin{array}{r} \times 7 \\ \hline \end{array}$
$+ 2 =$ $\begin{array}{r} + \\ \hline 1 \end{array}$	$+ 7 =$ $\begin{array}{r} + \\ \hline 1 \end{array}$
$- = 3$ $\begin{array}{r} + \\ \hline \end{array}$	$5 + =$ $\begin{array}{r} + \\ \hline \end{array}$

$$\begin{array}{|c|c|c|} \hline & & \\ \hline & \underline{1} & \\ \hline & & \\ \hline \end{array} + 0 =$$

$$\begin{array}{|c|c|c|} \hline & & \\ \hline 2 & \underline{3} & \\ \hline & & \\ \hline \end{array} \times 7 =$$

$$+ 1 =$$

$$+ 4 =$$

N°14

$\begin{array}{r} 7 + \quad = \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline 1 \end{array}$	$+ 1 =$	$\begin{array}{r} 6 + 1 = \\ + \\ \hline 1 \end{array}$
$+ \quad = 6$	$\begin{array}{r} \times 7 \\ \hline \end{array}$		

$\begin{array}{r} 0 \\ \hline + \\ \hline 7 \\ \times \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline + \\ \hline 2 \\ \hline \end{array}$
$\begin{array}{r} 0 \\ \hline + \\ \hline 7 \\ \times \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline + \\ \hline 2 \\ \hline \end{array}$
$\begin{array}{r} 0 \\ \hline + \\ \hline 7 \\ \times \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline + \\ \hline 2 \\ \hline \end{array}$
$\begin{array}{r} 0 \\ \hline + \\ \hline 7 \\ \times \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline + \\ \hline 2 \\ \hline \end{array}$

N°15

$\begin{array}{r} -7 = \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} +4 = \\ +6 \\ \hline \end{array}$
$\begin{array}{r} + \\ \hline 1 \end{array}$	$\begin{array}{r} -3 = \\ \hline 1 \end{array}$
$\begin{array}{r} - \\ \hline 1 \end{array}$	$\begin{array}{r} 1 + \\ \hline \end{array}$

$\begin{array}{r} 0 \\ + \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ + \\ 1 \\ \hline \end{array}$	$+ 0 =$	$\begin{array}{r} 4 \\ + \\ 1 \\ \hline \end{array}$
$\begin{array}{r} - \\ 7 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + \\ 9 \\ \hline \end{array}$	$= 3$	$=$

N°16

$\begin{array}{r} -1 = \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 7 - = \\ \times \\ \hline \end{array}$
$\begin{array}{r} +9 - 7 = \\ \hline 1 \end{array}$	$\begin{array}{r} +8 \\ \hline 1 \end{array}$
$+ = 6$	$- =$

	+ <u>5</u>			- <u>2</u>	
-	=	2		7+	=
x <u>7</u>		+ <u>1</u>	-6=	x	+ <u>4</u>
=		=		=	=
		1			1
-9=				-1=	

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N°17

$+7=$	$6-4=$
$+ \quad +$	$+ \quad \times$
$\underline{1} \quad \underline{1}$	$\underline{1} \quad \underline{7}$
$+3=$	$+ \quad +$
$\quad \quad$	$\quad \quad$
$+ \quad =5$	$- \quad =$
$\quad \quad$	$\quad \quad$
$\underline{4}$	$\underline{1}$
$+1=4$	$7- \quad =$
$\times \quad +$	$\times \quad +$
$\underline{7} \quad \underline{1}$	$\underline{8} \quad \underline{1}$
$-1=$	$= \quad$
$+1=$	$-6=$

N°18

$-3=$	$-2=$
$+ \quad +$	$+ \quad \times$
$\underline{4} \quad \underline{1}$	$\underline{1} \quad \underline{7}$
$-4=$	$+ \quad +$
$\quad \quad$	$\quad \quad$
$+1=2$	$3+ \quad =$
$\quad \quad$	$\quad \quad$
$\underline{2}$	$\underline{4}$
$- \quad =4$	$1+ \quad =$
$\times \quad +$	$\times \quad +$
$\underline{7} \quad \underline{1}$	$\underline{7} \quad \underline{7}$
$+ \quad =$	$= \quad$
$-8=$	$+1=$

N°19

$7+1=$	$-1=$
$\times \quad +$	$+ \quad \times$
$\underline{3} \quad \underline{1}$	$\underline{1} \quad \underline{7}$
$-0=$	$+ \quad +$
$\quad \quad$	$\quad \quad$
$+ \quad =5$	$3+ \quad =$
$\quad \quad$	$\quad \quad$
$\quad \quad$	$\underline{1}$
$+ \quad =7$	$+ \quad =6$
$\times \quad +$	$\times \quad +$
$\underline{8} \quad \underline{1}$	$\underline{7} \quad \underline{7}$
$-1=$	$= \quad$
$+1=$	$+2=$

N°20

$+5=$	$+6=$
$+ \quad +$	$+ \quad \times$
$\underline{1} \quad \underline{1}$	$\underline{9} \quad \underline{7}$
$+6=$	$+ \quad +$
$\quad \quad$	$\quad \quad$
$- \quad =0$	$0+ \quad =$
$\quad \quad$	$\quad \quad$
$\underline{1}$	$\underline{6}$
$+ \quad =7$	$7- \quad =$
$\times \quad +$	$\times \quad +$
$\underline{6} \quad \underline{1}$	$\underline{7} \quad \underline{7}$
$-5=$	$= \quad$
$+2=$	$+7=$

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Règles

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

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