

Nom :

garam 1-1

Date :

N°1

N°2

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

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

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

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

N°3

N°4

$\begin{array}{c} + \\ 2 \\ \hline 1 \end{array}$	$+ 1 =$	$\begin{array}{c} + \\ 1 \\ \hline 1 \end{array}$	$+ 1 =$	$\begin{array}{c} + \\ 1 \\ \hline 1 \end{array}$	$+ 7 =$	$\begin{array}{c} + \\ 9 \\ \hline 1 \end{array}$
$+ 7 = 7$					$0 + =$	

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

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

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

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N°5

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

N°6

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

N°7

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

N°8

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

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N°9

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

N°10

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

N°11

$-5=2$	$-3=$
$+7$	$+7$
$=1$	$=1$
$-6=$	$2+ =$
-3	$+0$
$-0=5$	$3+ =$
$+6$	$+2=$
$=1$	$=1$
$-0=$	$- =$

N°12

$-4=$	$+ =$
$+9$	$+0=$
$=1$	$=1$
$7- =$	$0+ =$
-1	$+3$
$- =4$	$3+ =$
$+3$	$-0=$
$=1$	$=1$
$-0=$	$+1=$

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N°13

$\times$	$-4=$	$+$	$-2=$	$+$	$+$
<u>2</u>		<u>1</u>	<u>1</u>	<u>7</u>	<u>1</u>
$-$	$=1$		$-$	$=0$	
	$+$	<u>1</u>		$+$	<u>4</u>
$-$	$=6$	$+$	$2+5=$	$\times$	<u>2</u>
$\times$		<u>1</u>	$-1=$	$=$	<u>2</u>
$-2=$			$-$	$=$	

N°14

$\times$	$-5=$	$+$	$+4=$	$\times$	
<u>2</u>		<u>1</u>	<u>9</u>	<u>2</u>	
			<u>1</u>		
$-$	$=0$		$4+$	$=$	
			$-$	<u>1</u>	
$6-$	$=$	$+$	$4+$	$=$	$\times$
$\times$		<u>1</u>	<u>1</u>		<u>2</u>
$-1=$			$+3=$		

N°15

$+$	$+3=$	$+$	$-$	$=2$	$\times$
<u>8</u>		<u>1</u>	$-5=$	<u>9</u>	<u>2</u>
$+$	$=4$		$0+$	$=$	
	$+$	<u>4</u>		$-$	<u>2</u>
$-$	$=2$	$\times$	$1+$	$=$	$\times$
<u>9</u>		<u>1</u>	<u>1</u>		<u>2</u>
$-5=$			$+4=$		

N°16

$+$	$+1=$	$+$	$+1=$	$\times$	
<u>8</u>		<u>1</u>	<u>1</u>	<u>2</u>	
$+$	$=1$		$0+$	$=$	
	$+$	<u>2</u>		$-$	<u>2</u>
$+$	$=2$	$\times$	$2+$	$=$	$\times$
<u>1</u>		<u>1</u>	<u>1</u>		<u>2</u>
$+8=$			$+1=$		

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N°17

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

N°18

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

N°19

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

N°20

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

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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) ...

The image shows a 4x4 grid of mathematical puzzles. Each cell contains a number or operator. Some numbers are red, some are black. Some cells have small green numbers in parentheses next to them. The grid is divided into four 2x2 quadrants by a central cross. The top-left quadrant contains: (1,1) 1 (8), (1,2) +, (1,3) 1, (1,4) =, (1,5) 2 (6), (2,1) 9, (2,2) =, (2,3) x, (2,4) 7 (5), (2,5) -, (2,6) 3, (2,7) =, (2,8) 1, (3,1) 1 (9), (3,2) =, (3,3) 1, (3,4) =, (3,5) 4 (10), (3,6) -, (3,7) 4 (7), (4,1) 0, (4,2) =, (4,3) 0. The top-right quadrant contains: (1,1) 6 (2), (1,2) -, (1,3) 2, (1,4) =, (1,5) 4, (2,1) x, (2,2) 6 (3), (2,3) =, (2,4) 2, (2,5) =, (2,6) 2 (1), (3,1) 4 (4), (3,2) -, (3,3) 0 (18), (3,4) =, (3,5) 4, (4,1) 1, (4,2) =, (4,3) 1. The bottom-left quadrant contains: (1,1) 9 (12), (1,2) -, (1,3) 4 (11), (1,4) =, (1,5) 5, (2,1) x, (2,2) 8 (13), (2,3) =, (2,4) 9 (15), (2,5) -, (2,6) 3, (2,7) =, (2,8) 1, (3,1) 7 (13), (3,2) =, (3,3) 1, (3,4) =, (3,5) 4 (14), (4,1) 2, (4,2) =, (4,3) 2. The bottom-right quadrant contains: (1,1) 4 (17), (1,2) +, (1,3) 1 (19), (1,4) =, (1,5) 5 (20), (2,1) x, (2,2) 9 (23), (2,3) =, (2,4) 6 (16), (2,5) -, (2,6) 3, (2,7) =, (2,8) 1, (3,1) 2, (3,2) =, (3,3) 1, (3,4) =, (3,5) 4 (21), (3,6) +, (3,7) 0 (22), (3,8) =, (3,9) 4.