

Nom :

garam 1-3

Date :

N°1

$+1=$	$4-1=$
$\begin{array}{r} + \\ 6 \\ \hline 1 \end{array}$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$+ - 2 =$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$\begin{array}{r} + \\ 6 \\ \hline 1 \end{array}$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$+ = 7$	$- + =$

$+2=$	$3+ =$
$\begin{array}{r} - \\ 9 \\ \hline 1 \end{array}$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$- = 4$	$- 5 =$
$\begin{array}{r} + \\ 9 \\ \hline 1 \end{array}$	$\begin{array}{r} + \\ 5 \\ \hline 1 \end{array}$
$- 2 =$	$+ 1 =$

N°2

$-2=$	$+3=$
$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$	$\begin{array}{r} + \\ 6 \\ \hline 1 \end{array}$
$+ + 2 =$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$\begin{array}{r} + \\ 6 \\ \hline 1 \end{array}$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$- = 0$	$2 + =$

$-1=$	$-4=$
$\begin{array}{r} - \\ 1 \\ \hline \end{array}$	$\begin{array}{r} - \\ 4 \\ \hline \end{array}$
$- = 8$	$- = 4$
$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$	$\begin{array}{r} + \\ 1 \\ \hline \end{array}$
$+ 1 =$	$+ 3 =$

N°3

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

$-1=$	$4+ =$
$\begin{array}{r} - \\ 1 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \hline \end{array}$
$- 2 = 4$	$4 + =$
$\begin{array}{r} + \\ 1 \\ \hline \end{array}$	$\begin{array}{r} \times \\ 4 \\ \hline \end{array}$
$- 1 =$	$+ 6 =$

N°4

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

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

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N°5

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

N°6

$- 0 = 4$			$5 - =$		
$\times 5$		$+ 2 =$			$+ 6$
<u>1</u>		<u>1</u>		<u>1</u>	<u>1</u>
$+ = 1$			$- =$		
$+ 3 =$			$- 4 =$		
$\times 5$		$+ = 9$	$5 -$		$+ 7$
<u>1</u>		<u>1</u>	<u>1</u>		<u>1</u>
$- 0 =$			$+ 1 =$		

N°7

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

N°8

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

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N°9

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

N°10

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

N°11

$+$ 7	$- 3 =$	$+$	$+ 1 =$	$\times$ 5
<u>1</u>	$- 1 =$	<u>1</u>	<u>1</u>	<u>1</u>
$-$	$= 3$	$2 -$	$=$	
$+$ 0		$+$ 1		
$- 2 = 3$		$6 +$	$=$	$\times$ 5
<u>1</u>	$+$	<u>1</u>	$=$	<u>1</u>
$- 5 =$		$+ 1 =$		

N°12

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

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N°13

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

N°14

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

N°15

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

N°16

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

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N°17

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

$\begin{array}{r} \underline{1} \\ - \\ 7 \\ \hline 1 \end{array}$	$\begin{array}{r} \underline{6} \\ \times \\ 1 \\ \hline \end{array}$	$\begin{array}{r} \underline{5} \\ + \\ 2 \\ \hline 1 \end{array}$
$- =$	$+ 1 =$	$=$
$+ 4 =$	$+ 3 =$	$\times \underline{6} =$

N°18

$\begin{array}{r} -1 = \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$
$+ 0 =$	9	9	9
$\begin{array}{r} \hline 1 \\ \hline \end{array}$	$\begin{array}{r} \hline 1 \\ \hline \end{array}$	$\begin{array}{r} \hline 1 \\ \hline \end{array}$	$\begin{array}{r} \hline 1 \\ \hline \end{array}$
$+ = 3$	$0 + =$	$0 + =$	$0 + =$

Two 3x3 grids are shown, connected by a minus sign and an equals sign. The left grid contains the numbers 0, 5, 6, 1, 1, 8 and the right grid contains the numbers 1, 6, 9, 1, 1. The grids are connected by a minus sign and an equals sign.

N°19

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

$\begin{array}{r} \text{+} \\ 3 \\ \hline 1 \end{array}$	$\begin{array}{r} \text{+} \\ 1 \\ \hline \end{array}$
$\begin{array}{r} - \\ 3 \\ \hline \end{array}$	$\begin{array}{r} - \\ 6 \\ \hline \end{array}$
$\begin{array}{r} \text{+} \\ 3 \\ \hline 1 \end{array}$	$\begin{array}{r} \text{+} \\ 8 \\ \hline 1 \end{array}$
$\begin{array}{r} \text{+} \\ 3 \\ \hline 1 \end{array}$	$\begin{array}{r} \text{+} \\ 8 \\ \hline 1 \end{array}$

N°20

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

+ 2 =			+ 4 =		
- = 4	+	=	4 + =	+	=
× 6 =	-	= 1	=	= 1	× 6 =
- 3 =			+ 4 =		

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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) ...

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