



The Roblox Mainframe Breach

Grade 5 math · Subtraction, Addition, Multiplication, Fractions of a number · Reading level grades 5-6

Detective: _____ Date: _____

An elite ic0mu agent has been called in! A rogue Roblox hacker has breached the database and stolen the golden admin codes. We must use our logic and coding clues to find out who did it before the game crashes forever.

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the rogue Roblox hacker is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	EXPLOIT SCRIPT	GLITCH TOOL	MOUSE HAND	AVATAR HAIR	SYSTEM DEFENSE
Asimo3089	Teleport Loop	Memory Leak	Left Hand Mouse	Bacon Hair	Server Reboot
Builderman	Speed Coil	Bypass Firewall	Left Hand Mouse	Bacon Hair	Captcha Trap
Dev_Kevin	Teleport Loop	Memory Leak	Right Hand Mouse	Bacon Hair	Server Reboot
Telamon	Super Admin	Gravity Hammer	Left Hand Mouse	Bacon Hair	Server Reboot
Blox_Ghost	Super Admin	Invisible Cape	Right Hand Mouse	Bacon Hair	Anti Cheat Patch
Matrix_Byte	Super Admin	Bypass Firewall	Left Hand Mouse	Bacon Hair	Anti Cheat Patch
Guest 666	Teleport Loop	Gravity Hammer	Left Hand Mouse	Bacon Hair	Server Reboot
Script_King	Wall Clip	Gravity Hammer	Right Hand Mouse	Bacon Hair	Captcha Trap
Badcc	Super Admin	Lag Generator	Right Hand Mouse	Bacon Hair	Captcha Trap
John Doe	Speed Coil	Gravity Hammer	Right Hand Mouse	Bacon Hair	Captcha Trap
1x1x1x1	Teleport Loop	Invisible Cape	Right Hand Mouse	Spiky Blue Hair	Captcha Trap
ic0mu	Wall Clip	Bypass Firewall	Left Hand Mouse	Red Roblox Cap	Captcha Trap
Pixel_Lord	Super Admin	Bypass Firewall	Left Hand Mouse	Red Roblox Cap	Server Reboot
Glitch_Phantom	Super Admin	Memory Leak	Left Hand Mouse	Bacon Hair	Captcha Trap
c00lkidd	Super Admin	Invisible Cape	Right Hand Mouse	Bacon Hair	Captcha Trap
Noob_Master	Speed Coil	Memory Leak	Left Hand Mouse	Red Roblox Cap	Anti Cheat Patch
Shedletsky	Teleport Loop	Memory Leak	Left Hand Mouse	Bacon Hair	Anti Cheat Patch
ProCoder	Super Admin	Invisible Cape	Right Hand Mouse	Spiky Blue Hair	Anti Cheat Patch
Hacker_X	Speed Coil	Memory Leak	Right Hand Mouse	Bacon Hair	Captcha Trap
Cyber_Noob	Wall Clip	Invisible Cape	Left Hand Mouse	Bacon Hair	Anti Cheat Patch
Loleris	Wall Clip	Memory Leak	Right Hand Mouse	Spiky Blue Hair	Captcha Trap

CLUE 1 Subtraction

We scanned the damaged database. We had a total pool of backup files but the hacker deleted a portion of them. Subtract the missing files to find the recovery code.

Solve each problem, then write its letter in every clue box that shows the same number.

T 3838	6772	4668	6772	6027	6449	5179	4668	6942	3148	2705	4668	5917	4436	2705	T 3838	6327	5917	4668
T 3838	6772	4668	5028	6027	6131	6131	4668	4436	4668	6942	6027	T 3838	2705	6942				

$$4082 - 244 = \boxed{} \rightarrow \boxed{T}$$

$$4796 - 360 = \boxed{} \rightarrow \boxed{N}$$

$$8610 - 1838 = \boxed{} \rightarrow \boxed{H}$$

$$10084 - 4905 = \boxed{} \rightarrow \boxed{K}$$

$$6087 - 3382 = \boxed{} \rightarrow \boxed{O}$$

$$7013 - 986 = \boxed{} \rightarrow \boxed{A}$$

$$3376 - 228 = \boxed{} \rightarrow \boxed{D}$$

$$7917 - 2889 = \boxed{} \rightarrow \boxed{L}$$

$$7666 - 2998 = \boxed{} \rightarrow \boxed{E}$$

$$11107 - 4780 = \boxed{} \rightarrow \boxed{U}$$

$$9646 - 3729 = \boxed{} \rightarrow \boxed{S}$$

$$9725 - 3276 = \boxed{} \rightarrow \boxed{C}$$

$$8070 - 1128 = \boxed{} \rightarrow \boxed{R}$$

$$7485 - 1354 = \boxed{} \rightarrow \boxed{G}$$

Scratch space:

CLUE 2 Addition

The hacker left corrupted script blocks across multiple game servers. Our security team tallied the corrupted blocks and added them together to crack open the next secret file.

Solve each problem, then write its letter in every clue box that shows the same number.

T																		
5105	2349	2958	5765	3436	8162	9740	2958	7579	5396	9740	3839	8847	5396	5662	2958	4405	3436	9788

T						T					
5105	2349	2958	9484	3256	8731	2349	5105	9740	3256	4405	2958

$2564 + 2541 = \square \rightarrow$ T	$2009 + 3387 = \square \rightarrow$ A	$6212 + 3528 = \square \rightarrow$ S
$1946 + 1893 = \square \rightarrow$ P	$1730 + 2675 = \square \rightarrow$ D	$4842 + 4005 = \square \rightarrow$ L
$1941 + 1017 = \square \rightarrow$ E	$2869 + 5293 = \square \rightarrow$ U	$3031 + 2631 = \square \rightarrow$ C
$1224 + 2212 = \square \rightarrow$ O	$3810 + 5674 = \square \rightarrow$ R	$3318 + 4261 = \square \rightarrow$ W
$5821 + 2910 = \square \rightarrow$ G	$5811 + 3977 = \square \rightarrow$ N	$1591 + 758 = \square \rightarrow$ H
$1954 + 3811 = \square \rightarrow$ M	$2127 + 1129 = \square \rightarrow$ I	

Scratch space:

CLUE 3

Multiplication facts (1-12)

We found a suspicious grid of repeating firewall packets. By multiplying the rows of packets by the columns we can bypass the encryption and unlock a clue.

Solve each problem, then write its letter in every clue box that shows the same number.

T											T									
63	66	21	66	15	25	32	21	14	3	63	30	28	77	9	21	22	121	49		
				T					T											
15	25	15	5	63	25	66	15	63	14	15	5									

$7 \times 9 = \square \rightarrow \boxed{\text{T}}$

$7 \times 7 = \square \rightarrow \boxed{\text{N}}$

$7 \times 4 = \square \rightarrow \boxed{\text{M}}$

$5 \times 5 = \square \rightarrow \boxed{\text{C}}$

$2 \times 11 = \square \rightarrow \boxed{\text{D}}$

$7 \times 3 = \square \rightarrow \boxed{\text{E}}$

$11 \times 6 = \square \rightarrow \boxed{\text{H}}$

$1 \times 9 = \square \rightarrow \boxed{\text{L}}$

$5 \times 1 = \square \rightarrow \boxed{\text{P}}$

$1 \times 3 = \square \rightarrow \boxed{\text{S}}$

$7 \times 2 = \square \rightarrow \boxed{\text{R}}$

$10 \times 3 = \square \rightarrow \boxed{\text{U}}$

$11 \times 11 = \square \rightarrow \boxed{\text{O}}$

$7 \times 11 = \square \rightarrow \boxed{\text{B}}$

$4 \times 8 = \square \rightarrow \boxed{\text{K}}$

$5 \times 3 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4

Fractions of a number

Our security scanner needs a specific fraction of the remaining database processing bandwidth to run a deep scan of the player systems.

Solve each problem, then write its letter in every clue box that shows the same number.

W															
27	14	18	11	2	35	10	12	17	8	26	35	10	12	11	18
9	26	15	11	35	28	26	36	8	26	17	17	28	14	12	15

$3/5 \text{ of } 45 = \square \rightarrow \boxed{\text{W}}$

$1/4 \text{ of } 72 = \square \rightarrow \boxed{\text{F}}$

$1/2 \text{ of } 28 = \square \rightarrow \boxed{\text{E}}$

$2/4 \text{ of } 18 = \square \rightarrow \boxed{\text{B}}$

$5/10 \text{ of } 56 = \square \rightarrow \boxed{\text{H}}$

$1/6 \text{ of } 48 = \square \rightarrow \boxed{\text{R}}$

$1/6 \text{ of } 72 = \square \rightarrow \boxed{\text{S}}$

$3/6 \text{ of } 34 = \square \rightarrow \boxed{\text{T}}$

$3/6 \text{ of } 22 = \square \rightarrow \boxed{\text{O}}$

$1/2 \text{ of } 70 = \square \rightarrow \boxed{\text{N}}$

$3/6 \text{ of } 72 = \square \rightarrow \boxed{\text{I}}$

$2/6 \text{ of } 30 = \square \rightarrow \boxed{\text{D}}$

$2/5 \text{ of } 65 = \square \rightarrow \boxed{\text{A}}$

$4/6 \text{ of } 3 = \square \rightarrow \boxed{\text{U}}$

$3/10 \text{ of } 50 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

To locate the hacker physical computer setup we must analyze a fraction of the incoming server mouse click coordinates.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$1/2 \text{ of } 8 = \boxed{}$

$1/10 \text{ of } 10 = \boxed{}$

$2/4 \text{ of } 16 = \boxed{}$

$3/6 \text{ of } 24 = \boxed{}$

$1/8 \text{ of } 16 = \boxed{}$

$1/2 \text{ of } 12 = \boxed{}$

$2/8 \text{ of } 44 = \boxed{}$

$2/10 \text{ of } 25 = \boxed{}$

$4/8 \text{ of } 6 = \boxed{}$

$1/10 \text{ of } 70 = \boxed{}$

$1/3 \text{ of } 27 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain spawns giant neon blocks, then disables the chat box.
2. The villain injects a custom script, then disables the chat box.
3. The villain deletes the spawn location, then disables the chat box.
4. The villain freezes all online players, then locks the game files.
5. The villain teleports past the lobby barrier, then locks the game files.
6. The villain deletes the spawn location, then steals the golden crown.
7. The villain teleports past the lobby barrier, then corrupts the main server.
8. The villain injects a custom script, then steals the golden crown.
9. The villain injects a custom script, then corrupts the main server.
10. The villain spawns giant neon blocks, then steals the golden crown.
11. The villain freezes all online players, then disables the chat box.
12. The villain spawns giant neon blocks, then locks the game files.

Answer Key

The Roblox Mainframe Breach

Culprit: John Doe

Speed Coil · Gravity Hammer · Right Hand Mouse · Bacon Hair · Captcha Trap

Trail: Start 21 → Clue 1 20 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE HACKER DOES NOT USE THE LAG GENERATOR"

$4082 - 244 = 3838$ (T) · $4796 - 360 = 4436$ (N) · $8610 - 1838 = 6772$ (H) · $10084 - 4905 = 5179$ (K) · $6087 - 3382 = 2705$ (O) · $7013 - 986 = 6027$ (A) · $3376 - 228 = 3148$ (D) · $7917 - 2889 = 5028$ (L) · $7666 - 2998 = 4668$ (E) · $11107 - 4780 = 6327$ (U) · $9646 - 3729 = 5917$ (S) · $9725 - 3276 = 6449$ (C) · $8070 - 1128 = 6942$ (R) · $7485 - 1354 = 6131$ (G)

Clue 2 (Addition): "THE MOUSE WAS PLACED ON THE RIGHT SIDE"

$2564 + 2541 = 5105$ (T) · $2009 + 3387 = 5396$ (A) · $6212 + 3528 = 9740$ (S) · $1946 + 1893 = 3839$ (P) · $1730 + 2675 = 4405$ (D) · $4842 + 4005 = 8847$ (L) · $1941 + 1017 = 2958$ (E) · $2869 + 5293 = 8162$ (U) · $3031 + 2631 = 5662$ (C) · $1224 + 2212 = 3436$ (O) · $3810 + 5674 = 9484$ (R) · $3318 + 4261 = 7579$ (W) · $5821 + 2910 = 8731$ (G) · $5811 + 3977 = 9788$ (N) · $1591 + 758 = 2349$ (H) · $1954 + 3811 = 5765$ (M) · $2127 + 1129 = 3256$ (I)

Clue 3 (Multiplication facts (1-12)): "THE HACKER STUMBLED ON A CAPTCHA TRAP"

$7 \times 9 = 63$ (T) · $7 \times 7 = 49$ (N) · $7 \times 4 = 28$ (M) · $5 \times 5 = 25$ (C) · $2 \times 11 = 22$ (D) · $7 \times 3 = 21$ (E) · $11 \times 6 = 66$ (H) · $1 \times 9 = 9$ (L) · $5 \times 1 = 5$ (P) · $1 \times 3 = 3$ (S) · $7 \times 2 = 14$ (R) · $10 \times 3 = 30$ (U) · $11 \times 11 = 121$ (O) · $7 \times 11 = 77$ (B) · $4 \times 8 = 32$ (K) · $5 \times 3 = 15$ (A)

Clue 4 (Fractions of a number): "WE FOUND STRANDS OF BACON HAIR AT THE SCENE"

$\frac{3}{5}$ of 45 = 27 (W) · $\frac{1}{4}$ of 72 = 18 (F) · $\frac{1}{2}$ of 28 = 14 (E) · $\frac{2}{4}$ of 18 = 9 (B) · $\frac{5}{10}$ of 56 = 28 (H) · $\frac{1}{6}$ of 48 = 8 (R) · $\frac{1}{6}$ of 72 = 12 (S) · $\frac{3}{6}$ of 34 = 17 (T) · $\frac{3}{6}$ of 22 = 11 (O) · $\frac{1}{2}$ of 70 = 35 (N) · $\frac{3}{6}$ of 72 = 36 (I) · $\frac{2}{6}$ of 30 = 10 (D) · $\frac{2}{5}$ of 65 = 26 (A) · $\frac{4}{6}$ of 3 = 2 (U) · $\frac{3}{10}$ of 50 = 15 (C)

Clue 5 (Fractions of a number): surviving statement is box 10 → John Doe

$\frac{1}{2}$ of 8 = 4 · $\frac{1}{10}$ of 10 = 1 · $\frac{2}{4}$ of 16 = 8 · $\frac{3}{6}$ of 24 = 12 · $\frac{1}{8}$ of 16 = 2 · $\frac{1}{2}$ of 12 = 6 · $\frac{2}{8}$ of 44 = 11 · $\frac{2}{10}$ of 25 = 5 · $\frac{4}{8}$ of 6 = 3 · $\frac{1}{10}$ of 70 = 7 · $\frac{1}{3}$ of 27 = 9