



The Phantom Server Sabotage

Grade 8 math · Addition, Multiplication, Subtraction, Word problems, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

A rogue player has bypassed the anti-cheat system in Roblox Phantom Forces, stealing the legendary Golden Knife skin right out of the Server Administrator's inventory. We must analyze the game logs to find which blocky soldier committed the ultimate server crime!

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 player is _____

Possible suspects

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

NAME	LOADOUT CLASS	GRENADE TYPE	LASER ATTACHMENT	HEAD ACCESSORY	TACTICAL COUNTER
NeonStriker	Carbine Class	Frag Grenade	Red Laser	Spiky Blocky Hair	Flashbang
SlayerPro	Support Class	Frag Grenade	Green Laser	Tactical Helmet	Flashbang
DevLoki	Recon Class	Impact Grenade	Green Laser	Tactical Helmet	Sledgehammer
GhostRecruit	Assault Class	Frag Grenade	Green Laser	Spiky Blocky Hair	Sledgehammer
Litozinnamon	Scout Class	Impact Grenade	Green Laser	Tactical Helmet	Flashbang
AxisAngle	Assault Class	Flash Grenade	Green Laser	Spiky Blocky Hair	Sledgehammer
SoggyNugget	Carbine Class	Frag Grenade	Red Laser	Spiky Blocky Hair	EMP Grenade
MatrixBlock	Support Class	Flash Grenade	Green Laser	Bacon Hair	Sledgehammer
BaconSoldier	Recon Class	Frag Grenade	Green Laser	Tactical Helmet	EMP Grenade
PhantomSniper	Support Class	Impact Grenade	Red Laser	Bacon Hair	EMP Grenade
BloxyGamer	Scout Class	Impact Grenade	Red Laser	Bacon Hair	EMP Grenade
Stickmaster	Assault Class	Sticky Grenade	Green Laser	Spiky Blocky Hair	EMP Grenade
Shedletsky	Scout Class	Flash Grenade	Green Laser	Tactical Helmet	EMP Grenade
EasySpeeder	Support Class	Sticky Grenade	Red Laser	Bacon Hair	Sledgehammer
Telamon	Recon Class	Sticky Grenade	Green Laser	Tactical Helmet	Flashbang
NoobSlayer	Carbine Class	Flash Grenade	Green Laser	Tactical Helmet	Flashbang
VoltRunner	Recon Class	Frag Grenade	Red Laser	Tactical Helmet	Flashbang
Builderman	Assault Class	Smoke Grenade	Red Laser	Tactical Helmet	Flashbang
Robloxian77	Assault Class	Frag Grenade	Green Laser	Spiky Blocky Hair	Flashbang
CyberTrooper	Recon Class	Frag Grenade	Green Laser	Bacon Hair	Sledgehammer
Guest666	Scout Class	Flash Grenade	Green Laser	Tactical Helmet	Flashbang

CLUE 1 Addition

To access the database of active Roblox accounts, we must count the total number of login attempts across three regional servers. Summing these server records will decrypt our first clue.

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

T																		
8617	5816	8424	6898	9662	6898	4493	8424	4360	8617	3989	7369	8424	6898	4979	7369	8617		
9662	6898	8424	8617	5816	8424	6898	8617	9862	4360	3681	8020	8862	6356	8424	4979	9256	3989	8424

5022 + 3595 = → T	5710 + 3952 = → U	4565 + 4691 = → A
5324 + 2696 = → Y	3157 + 5267 = → E	5514 + 4348 = → I
2461 + 1899 = → C	4428 + 4434 = → G	2672 + 1821 = → P
1172 + 2509 = → K	2787 + 2192 = → N	4280 + 3089 = → O
3938 + 1878 = → H	2432 + 1557 = → D	3815 + 2541 = → R
2490 + 4408 = → S		

Scratch space:

CLUE 2

Multiplication facts (1-12)

The rogue player left behind encrypted ammo crates arranged in neat rectangular rows. By multiplying the rows of boxes, we can bypass the lock and inspect the weapon tags inside.

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

T															
63	121	4	60	49	60	6	4	8	63	49	60	4	60	120	
															T
32	25	4	4	72	12	120	60	4	25	60	35	32	121	63	

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

$10 \times 12 = \square \rightarrow \boxed{\text{A}}$

$2 \times 2 = \square \rightarrow \boxed{\text{E}}$

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

$7 \times 5 = \square \rightarrow \boxed{\text{I}}$

$1 \times 8 = \square \rightarrow \boxed{\text{C}}$

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

$12 \times 5 = \square \rightarrow \boxed{\text{S}}$

$8 \times 9 = \square \rightarrow \boxed{\text{N}}$

$2 \times 6 = \square \rightarrow \boxed{\text{L}}$

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

$1 \times 6 = \square \rightarrow \boxed{\text{P}}$

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

Scratch space:

CLUE 3

Subtraction

The administrator wants to know how many credits were deleted from the game database after the heist. Subtracting the current server balance from yesterday's total reveals the lost database file.

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

T													
7815	5624	5485	8588	3016	5588	5588	1065	3016	6193	3016	5476		

										T	
8588	7444	5588	6193	5485	5792	1065	7979	5588	5485	7815	7544

8521	5588	1065	5476	5624	7979	1065	6193	7471	5476

$11954 - 4139 = \square \rightarrow \boxed{\text{T}}$

$10584 - 3140 = \square \rightarrow \boxed{\text{U}}$

$7962 - 4946 = \square \rightarrow \boxed{\text{I}}$

$9763 - 4139 = \square \rightarrow \boxed{\text{H}}$

$5540 - 55 = \square \rightarrow \boxed{\text{E}}$

$8877 - 3085 = \square \rightarrow \boxed{\text{R}}$

$11878 - 3357 = \square \rightarrow \boxed{\text{F}}$

$8242 - 2766 = \square \rightarrow \boxed{\text{S}}$

$12209 - 4665 = \square \rightarrow \boxed{\text{O}}$

$4254 - 3189 = \square \rightarrow \boxed{\text{A}}$

$12247 - 4268 = \square \rightarrow \boxed{\text{B}}$

$9514 - 926 = \square \rightarrow \boxed{\text{V}}$

$10818 - 3347 = \square \rightarrow \boxed{\text{G}}$

$6807 - 1219 = \square \rightarrow \boxed{\text{L}}$

$7441 - 1248 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 4

Word problems

The game developers left a series of custom player-stat challenges to unlock the secure security log. Solve these story problems about weapon cases and Robux to open the encrypted folder.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of T T M T hair turned up at the scene.

The Server Host lined up 6 rows of 7 credits. How many credits in all?

Answer: → T

The Server Host found 19 badges yesterday and 4 more today. How many badges in all?

Answer: → A

There were 151 credits. 35 were used up. How many credits are left?

Answer: → I

There were 42 keys. 3 were used up. How many keys are left?

Answer: → H

The Server Host found 13 keys yesterday and 98 more today. How many keys in all?

Answer: → L

There were 153 badges. 39 were used up. How many badges are left?

Answer: → E

There were 134 robux. 14 were used up. How many robux are left?

Answer: → C

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

We found a pile of stolen XP boost cards left in the lobby. If we share them equally among the detective team, the remaining cards will give us the final coordinate of the culprit.

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:

$44 \div 4 = \boxed{}$

$28 \div 4 = \boxed{}$

$35 \div 7 = \boxed{}$

$81 \div 9 = \boxed{}$

$8 \div 4 = \boxed{}$

$20 \div 2 = \boxed{}$

$54 \div 9 = \boxed{}$

$72 \div 9 = \boxed{}$

$21 \div 7 = \boxed{}$

$6 \div 6 = \boxed{}$

$72 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain hacked the game lobby, then bragged on the global chat.
2. The villain hacked the game lobby, then bought a rare weapon crate.
3. The villain glitched through the wall, then redeemed a secret code.
4. The villain stole the golden skin, then escaped in a fast helicopter.
5. The villain captured the main hill, then reset their avatar to fast-travel.
6. The villain glitched through the wall, then escaped in a fast helicopter.
7. The villain captured the main hill, then redeemed a secret code.
8. The villain sniped the lobby leader, then bragged on the global chat.
9. The villain glitched through the wall, then bought a rare weapon crate.
10. The villain stole the golden skin, then bragged on the global chat.
11. The villain glitched through the wall, then reset their avatar to fast-travel.
12. The villain sniped the lobby leader, then bought a rare weapon crate.

Answer Key

The Phantom Server Sabotage

Culprit: SlayerPro

Support Class · Frag Grenade · Green Laser · Tactical Helmet · Flashbang

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT USE THE STICKY GRENADE"

$5022 + 3595 = 8617$ (T) · $5710 + 3952 = 9662$ (U) · $4565 + 4691 = 9256$ (A) · $5324 + 2696 = 8020$ (Y) · $3157 + 5267 = 8424$ (E) · $5514 + 4348 = 9862$ (I) · $2461 + 1899 = 4360$ (C) · $4428 + 4434 = 8862$ (G) · $2672 + 1821 = 4493$ (P) · $1172 + 2509 = 3681$ (K) · $2787 + 2192 = 4979$ (N) · $4280 + 3089 = 7369$ (O) · $3938 + 1878 = 5816$ (H) · $2432 + 1557 = 3989$ (D) · $3815 + 2541 = 6356$ (R) · $2490 + 4408 = 6898$ (S)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT USES A GREEN LASER SIGHT"

$9 \times 7 = 63$ (T) · $10 \times 12 = 120$ (A) · $2 \times 2 = 4$ (E) · $7 \times 7 = 49$ (U) · $7 \times 5 = 35$ (I) · $1 \times 8 = 8$ (C) · $5 \times 5 = 25$ (R) · $12 \times 5 = 60$ (S) · $8 \times 9 = 72$ (N) · $2 \times 6 = 12$ (L) · $8 \times 4 = 32$ (G) · $1 \times 6 = 6$ (P) · $11 \times 11 = 121$ (H)

Clue 3 (Subtraction): "THE VILLAIN IS VULNERABLE TO FLASHBANGS"

$11954 - 4139 = 7815$ (T) · $10584 - 3140 = 7444$ (U) · $7962 - 4946 = 3016$ (I) · $9763 - 4139 = 5624$ (H) · $5540 - 55 = 5485$ (E) · $8877 - 3085 = 5792$ (R) · $11878 - 3357 = 8521$ (F) · $8242 - 2766 = 5476$ (S) · $12209 - 4665 = 7544$ (O) · $4254 - 3189 = 1065$ (A) · $12247 - 4268 = 7979$ (B) · $9514 - 926 = 8588$ (V) · $10818 - 3347 = 7471$ (G) · $6807 - 1219 = 5588$ (L) · $7441 - 1248 = 6193$ (N)

Clue 4 (Word problems): "TACTICAL HELMET"

The Server Host lined up 6 rows of 7 credits. How many credits in all? = 42 (T) · The Server Host found 19 badges yesterday and 4 more today. How many badges in all? = 23 (A) · There were 151 credits. 35 were used up. How many credits are left? = 116 (I) · There were 42 keys. 3 were used up. How many keys are left? = 39 (H) · The Server Host found 13 keys yesterday and 98 more today. How many keys in all? = 111 (L) · There were 153 badges. 39 were used up. How many badges are left? = 114 (E) · There were 134 robux. 14 were used up. How many robux are left? = 120 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → SlayerPro

$44 \div 4 = 11$ · $28 \div 4 = 7$ · $35 \div 7 = 5$ · $81 \div 9 = 9$ · $8 \div 4 = 2$ · $20 \div 2 = 10$ · $54 \div 9 = 6$ · $72 \div 9 = 8$ · $21 \div 7 = 3$ · $6 \div 6 = 1$ · $72 \div 6 = 12$