



The Battle for Robloxia

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

Detective: _____ **Date:** _____

A mysterious rogue hacker has breached the core database of Robloxia, threatening to replace every game with giant dancing noobs! The Head Server Administrator has been locked out of the admin panel. Only by analyzing server logs and decoding the hacker's digital footprint can we find who did it before the entire network crashes!

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 Exploiter is _____

Possible suspects

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

NAME	HACKED SCRIPT	SPAWNED GEAR	TOOL GRIP STYLE	AVATAR HAIR	SYSTEM COUNTERMEASURE
TheRealCooldude	Brick Rain Glitch	Illumina Sword	Left Hand Grip	Blue Charmer Hair	Anti-Exploit Script
GlitchSeeker	Avatar Morph Exploit	Hyperlaser Gun	Left Hand Grip	Beautiful Hair	Patch 1.2 Update
Linkmon99	Brick Rain Glitch	Speed Coil	Left Hand Grip	Blue Charmer Hair	Moderator Ban Wave
GamerNomad	Avatar Morph Exploit	Illumina Sword	Left Hand Grip	Blue Charmer Hair	Patch 1.2 Update
Badcc	Server Crash Tool	Illumina Sword	Left Hand Grip	Beautiful Hair	Anti-Exploit Script
NoobMaster	Gravity Shift Script	Speed Coil	Right Hand Grip	Blue Charmer Hair	Moderator Ban Wave
Asimo3089	Infinite Jump Script	Ban Hammer	Right Hand Grip	Bacon Hair	Moderator Ban Wave
John Doe	Gravity Shift Script	Speed Coil	Left Hand Grip	Bacon Hair	Patch 1.2 Update
KreekCraft	Avatar Morph Exploit	Hyperlaser Gun	Right Hand Grip	Bacon Hair	Moderator Ban Wave
Stickmasterluke	Infinite Jump Script	Speed Coil	Right Hand Grip	Blue Charmer Hair	Moderator Ban Wave
Guest666	Infinite Jump Script	Ban Hammer	Left Hand Grip	Bacon Hair	Moderator Ban Wave
Merely	Server Crash Tool	Hyperlaser Gun	Left Hand Grip	Blue Charmer Hair	Moderator Ban Wave
Alexnewtron	Avatar Morph Exploit	Illumina Sword	Left Hand Grip	Blue Charmer Hair	Anti-Exploit Script
Nikilis	Brick Rain Glitch	Illumina Sword	Left Hand Grip	Blue Charmer Hair	Moderator Ban Wave
ic0mu	Brick Rain Glitch	Regeneration Coil	Left Hand Grip	Bacon Hair	Moderator Ban Wave
coolkid	Infinite Jump Script	Regeneration Coil	Right Hand Grip	Bacon Hair	Anti-Exploit Script
Telamon	Brick Rain Glitch	Hyperlaser Gun	Left Hand Grip	Bacon Hair	Moderator Ban Wave
Cindering	Gravity Shift Script	Illumina Sword	Left Hand Grip	Bacon Hair	Moderator Ban Wave
Builderman	Gravity Shift Script	Hyperlaser Gun	Right Hand Grip	Bacon Hair	Moderator Ban Wave
RipIndra	Infinite Jump Script	Illumina Sword	Left Hand Grip	Bacon Hair	Patch 1.2 Update
Defaultio	Infinite Jump Script	Regeneration Coil	Left Hand Grip	Bacon Hair	Moderator Ban Wave

CLUE 1 Subtraction

We found a pile of corrupted data packets in the main server room. After subtracting the deleted backup files from the total spam logs, the remaining count reveals a hint about the rogue hacker's gear.

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

T						T											T
6904	5384	7819	1879	1791	5868	6904	4081	5384	7819	4234	5038	8870	7819	6321	6442	8870	6904

				T											
5384	5608	4372	7819	6904	5384	7819	4648	5608	6442	5384	5608	1180	1180	7819	4234

$10308 - 3404 = \boxed{} \rightarrow \boxed{T}$

$10564 - 2745 = \boxed{} \rightarrow \boxed{E}$

$9890 - 4282 = \boxed{} \rightarrow \boxed{A}$

$2540 - 749 = \boxed{} \rightarrow \boxed{L}$

$11609 - 2739 = \boxed{} \rightarrow \boxed{O}$

$7316 - 874 = \boxed{} \rightarrow \boxed{N}$

$4957 - 723 = \boxed{} \rightarrow \boxed{R}$

$8903 - 3035 = \boxed{} \rightarrow \boxed{I}$

$7571 - 3199 = \boxed{} \rightarrow \boxed{V}$

$2120 - 940 = \boxed{} \rightarrow \boxed{M}$

$4644 - 563 = \boxed{} \rightarrow \boxed{C}$

$9428 - 4044 = \boxed{} \rightarrow \boxed{H}$

$6755 - 1717 = \boxed{} \rightarrow \boxed{D}$

$7312 - 2664 = \boxed{} \rightarrow \boxed{B}$

$2414 - 535 = \boxed{} \rightarrow \boxed{G}$

$11174 - 4853 = \boxed{} \rightarrow \boxed{S}$

Scratch space:

CLUE 2 Addition

A wave of glitchy red chat bubbles flooded the community forum. Adding up the chat logs from the lobby and the trade plaza reveals a hidden code showing the hacker's tool grip style.

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

T										T									
6407	5020	8903	8903	8665	7664	7957	5240	8707	6407	8903	9261	7196	9261	8707	7664	4189			
T								T		T									T
6407	5240	5240	7957	4189	5595	8707	6407	5020	6407	5020	8903	7957	8903	8469	6407				
5020	3124	6623	5141																

$1960 + 4447 = \div \rightarrow \boxed{T}$	$2003 + 3017 = \div \rightarrow \boxed{H}$	$4450 + 4453 = \div \rightarrow \boxed{E}$
$4256 + 3408 = \div \rightarrow \boxed{P}$	$4545 + 3924 = \div \rightarrow \boxed{F}$	$1830 + 2359 = \div \rightarrow \boxed{S}$
$2509 + 4114 = \div \rightarrow \boxed{N}$	$4421 + 4840 = \div \rightarrow \boxed{R}$	$3972 + 4693 = \div \rightarrow \boxed{X}$
$3503 + 1737 = \div \rightarrow \boxed{O}$	$2781 + 5176 = \div \rightarrow \boxed{L}$	$2743 + 2398 = \div \rightarrow \boxed{D}$
$1516 + 1608 = \div \rightarrow \boxed{A}$	$2135 + 3460 = \div \rightarrow \boxed{W}$	$4117 + 3079 = \div \rightarrow \boxed{G}$
$2681 + 6026 = \div \rightarrow \boxed{I}$		

Scratch space:

Multiplication facts (1-12)

The hacker cloned rows of giant yellow noob statues across the baseplate. Multiplying the number of rows by the statues in each row reveals a database key with a clue about their avatar's hair.

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

A number line from 0 to 144. Boxes are placed at intervals of 18. The numbers 36, 63, 132, 72, 20, 66, 132, 14, 56, 36, 20, 14, 84, 56, 12, 54, 56, 144, and 132 are written below the boxes. The box containing the number 36 is highlighted in orange and contains a 'T'.

$$3 \times 12 = \boxed{} \rightarrow \boxed{\text{T}}$$

$12 \times 6 = \boxed{} \rightarrow \boxed{\text{M}}$

$$10 \times 2 = \boxed{} \rightarrow \boxed{0}$$

$9 \times 6 =$ $\rightarrow$ **W**

$$2 \times 6 = \boxed{} \rightarrow \boxed{\text{N}}$$

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

$7 \times 9 = \boxed{} \rightarrow \boxed{\text{H}}$

$12 \times 9 = \boxed{} \rightarrow \boxed{\text{C}}$

$$10 \times 11 = \boxed{} \rightarrow \boxed{}$$

$$12 \times 11 = \boxed{} \rightarrow \boxed{\text{E}}$$

$7 \times 8 = \square \rightarrow \boxed{\mathbf{A}}$

$7 \times 12 = \boxed{} \rightarrow \boxed{\text{B}}$

$12 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{V}}$

$10 \times 9 = \boxed{} \rightarrow \boxed{\text{P}}$

$11 \times 6 = \boxed{} \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 4
Fractions of a number

The security firewalls are running at partial capacity. By calculating a fraction of the remaining server bandwidth, we can isolate a specific signal revealing the system patch that neutralizes the villain.

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

B																			
10	18	39	11	17	14	18	38	35	21	15	35	18	17	13	21	9	30	35	30
21	26	11	15	15	30	13	38	17	15	14	30	7	11	32	21				

$1/5 \text{ of } 50 = \square \rightarrow \text{B}$

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

$7/10 \text{ of } 10 = \square \rightarrow \text{L}$

$1/5 \text{ of } 130 = \square \rightarrow \text{P}$

$1/5 \text{ of } 160 = \square \rightarrow \text{G}$

$6/8 \text{ of } 28 = \square \rightarrow \text{S}$

$1/3 \text{ of } 42 = \square \rightarrow \text{H}$

$2/8 \text{ of } 44 = \square \rightarrow \text{O}$

$3/4 \text{ of } 52 = \square \rightarrow \text{C}$

$3/10 \text{ of } 100 = \square \rightarrow \text{E}$

$3/4 \text{ of } 12 = \square \rightarrow \text{W}$

$2/3 \text{ of } 57 = \square \rightarrow \text{I}$

$4/6 \text{ of } 27 = \square \rightarrow \text{A}$

$3/6 \text{ of } 70 = \square \rightarrow \text{R}$

$3/8 \text{ of } 40 = \square \rightarrow \text{T}$

$1/8 \text{ of } 104 = \square \rightarrow \text{D}$

Scratch space:

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

A portion of the deleted server log has been recovered. Finding the fraction of these restored files gives us a direct coordinate to track down the suspect's exact hair type.

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:

$2/6 \text{ of } 15 = \boxed{}$

$1/5 \text{ of } 5 = \boxed{}$

$1/6 \text{ of } 42 = \boxed{}$

$6/10 \text{ of } 5 = \boxed{}$

$1/10 \text{ of } 80 = \boxed{}$

$1/4 \text{ of } 8 = \boxed{}$

$3/8 \text{ of } 32 = \boxed{}$

$2/3 \text{ of } 9 = \boxed{}$

$1/6 \text{ of } 24 = \boxed{}$

$5/10 \text{ of } 22 = \boxed{}$

$1/5 \text{ of } 50 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain spawned a giant brick rain storm, then healed up using a regeneration coil.
2. The villain ran the infinite jump script, then fired a shot from a hyperlaser gun.
3. The villain activated an illegal avatar morph, then fired a shot from a hyperlaser gun.
4. The villain ran the infinite jump script, then swung a glowing ban hammer.
5. The villain triggered a massive gravity shift, then slashed the air with an illumina sword.
6. The villain activated an illegal avatar morph, then sprang away with a speed coil.
7. The villain ran the infinite jump script, then healed up using a regeneration coil.
8. The villain spawned a giant brick rain storm, then sprang away with a speed coil.
9. The villain spawned a giant brick rain storm, then fired a shot from a hyperlaser gun.
10. The villain caused a complete server crash, then sprang away with a speed coil.
11. The villain ran the infinite jump script, then sprang away with a speed coil.
12. The villain triggered a massive gravity shift, then fired a shot from a hyperlaser gun.

Answer Key

The Battle for Robloxia

Culprit: Telamon

Brick Rain Glitch · Hyperlaser Gun · Left Hand Grip · Bacon Hair · Moderator Ban Wave

Trail: Start 21 → Clue 1 19 → Clue 2 14 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE GLITCHER DOES NOT HAVE THE BAN HAMMER"

$10308 - 3404 = 6904$ (T) · $10564 - 2745 = 7819$ (E) · $9890 - 4282 = 5608$ (A) · $2540 - 749 = 1791$ (L) · $11609 - 2739 = 8870$ (O) · $7316 - 874 = 6442$ (N) · $4957 - 723 = 4234$ (R) · $8903 - 3035 = 5868$ (I) · $7571 - 3199 = 4372$ (V) · $2120 - 940 = 1180$ (M) · $4644 - 563 = 4081$ (C) · $9428 - 4044 = 5384$ (H) · $6755 - 1717 = 5038$ (D) · $7312 - 2664 = 4648$ (B) · $2414 - 535 = 1879$ (G) · $11174 - 4853 = 6321$ (S)

Clue 2 (Addition): "THE EXPLOITER GRIPS TOOLS WITH THE LEFT HAND"

$1960 + 4447 = 6407$ (T) · $2003 + 3017 = 5020$ (H) · $4450 + 4453 = 8903$ (E) · $4256 + 3408 = 7664$ (P) · $4545 + 3924 = 8469$ (F) · $1830 + 2359 = 4189$ (S) · $2509 + 4114 = 6623$ (N) · $4421 + 4840 = 9261$ (R) · $3972 + 4693 = 8665$ (X) · $3503 + 1737 = 5240$ (O) · $2781 + 5176 = 7957$ (L) · $2743 + 2398 = 5141$ (D) · $1516 + 1608 = 3124$ (A) · $2135 + 3460 = 5595$ (W) · $4117 + 3079 = 7196$ (G) · $2681 + 6026 = 8707$ (I)

Clue 3 (Multiplication facts (1-12)): "THE MODERATOR BAN WAVE CAN WIPE THEM"

$3 \times 12 = 36$ (T) · $12 \times 6 = 72$ (M) · $10 \times 2 = 20$ (O) · $9 \times 6 = 54$ (W) · $2 \times 6 = 12$ (N) · $7 \times 2 = 14$ (R) · $7 \times 9 = 63$ (H) · $12 \times 9 = 108$ (C) · $10 \times 11 = 110$ (I) · $12 \times 11 = 132$ (E) · $7 \times 8 = 56$ (A) · $7 \times 12 = 84$ (B) · $12 \times 12 = 144$ (V) · $10 \times 9 = 90$ (P) · $11 \times 6 = 66$ (D)

Clue 4 (Fractions of a number): "BACON HAIR STRANDS WERE SPOTTED IN THE LOGS"

$1/5$ of 50 = 10 (B) · $3/6$ of 34 = 17 (N) · $7/10$ of 10 = 7 (L) · $1/5$ of 130 = 26 (P) · $1/5$ of 160 = 32 (G) · $6/8$ of 28 = 21 (S) · $1/3$ of 42 = 14 (H) · $2/8$ of 44 = 11 (O) · $3/4$ of 52 = 39 (C) · $3/10$ of 100 = 30 (E) · $3/4$ of 12 = 9 (W) · $2/3$ of 57 = 38 (I) · $4/6$ of 27 = 18 (A) · $3/6$ of 70 = 35 (R) · $3/8$ of 40 = 15 (T) · $1/8$ of 104 = 13 (D)

Clue 5 (Fractions of a number): surviving statement is box 9 → Telamon

$2/6$ of 15 = 5 · $1/5$ of 5 = 1 · $1/6$ of 42 = 7 · $6/10$ of 5 = 3 · $1/10$ of 80 = 8 · $1/4$ of 8 = 2 · $3/8$ of 32 = 12 · $2/3$ of 9 = 6 · $1/6$ of 24 = 4 · $5/10$ of 22 = 11 · $1/5$ of 50 = 10