



The Redstone Hack

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A rogue Glitchbot has hacked the main Minecraft server! They stole the legendary Netherite Redstone Core from the Chief Builder's vault. We must scan the blocky suspects and analyze the digital evidence to find out who did it.

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 Glitchbot is _____

Possible suspects

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

NAME	PRIMARY MOD	BUILT-IN TOOL	ACTIVE SENSOR	CABLE COLOR	SYSTEM BUG
Data Slime	TNT Launching	Laser Eye	Right Redstone Eye	Bright Green Wires	Magnet Pull
Cyber Herobrine	Teleport Glitching	Laser Eye	Left Redstone Eye	Copper Orange Wires	Water Splash
Battery Cow	Teleport Glitching	Laser Eye	Right Redstone Eye	Neon Blue Wires	Water Splash
Circuit Pig	TNT Launching	Redstone Repeater	Left Redstone Eye	Bright Green Wires	Water Splash
Mecha Zombie	Block Duplication	Hover Jets	Right Redstone Eye	Bright Green Wires	Magnet Pull
RAM Guardian	Block Duplication	Redstone Repeater	Right Redstone Eye	Copper Orange Wires	Water Splash
Clog Blaze	Lava Walking	Diamond Drill	Left Redstone Eye	Copper Orange Wires	Magnet Pull
Alex Bot	TNT Launching	Redstone Repeater	Right Redstone Eye	Bright Green Wires	Magnet Pull
Gear Shulker	Lava Walking	Obsidian Shield	Right Redstone Eye	Copper Orange Wires	Magnet Pull
Chip Sheep	Auto-Mining	Obsidian Shield	Left Redstone Eye	Copper Orange Wires	Magnet Pull
Iron Golem VTwo	TNT Launching	Laser Eye	Left Redstone Eye	Neon Blue Wires	Magnet Pull
Buster Phantom	Lava Walking	Hover Jets	Left Redstone Eye	Copper Orange Wires	Magnet Pull
Steve Tron	Auto-Mining	Diamond Drill	Left Redstone Eye	Copper Orange Wires	Magnet Pull
Alpha Notch	Teleport Glitching	Laser Eye	Left Redstone Eye	Bright Green Wires	Water Splash
Vector Witch	Auto-Mining	Hover Jets	Right Redstone Eye	Neon Blue Wires	Water Splash
Rusty Creeper	Block Duplication	Diamond Drill	Left Redstone Eye	Copper Orange Wires	Water Splash
Redstone Steve	TNT Launching	Redstone Repeater	Right Redstone Eye	Neon Blue Wires	Water Splash
Byte Skeleton	Lava Walking	Hover Jets	Left Redstone Eye	Neon Blue Wires	Water Splash
Kernel Jeb	TNT Launching	Redstone Repeater	Left Redstone Eye	Neon Blue Wires	Rusting Joint
Servo Spider	TNT Launching	Obsidian Shield	Right Redstone Eye	Copper Orange Wires	Rusting Joint
Wired Wither	Auto-Mining	Redstone Repeater	Left Redstone Eye	Copper Orange Wires	Magnet Pull

CLUE 1 Rounding

Our blocky radar scans the horizon. It can only show rounded numbers of blocks. Let's round the coordinate readouts to get the first clue.

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

T 230 3700 200	4300 900 70 70 20 900 1100	2300 300 200 700	1100 300	230
430 700 200	20	T 2900 200 2300 700 230 300 1100 200	T 2900 200 50 200 20 230 200 2900	

Round 230 to the nearest ten → **T**

Round 46 to the nearest ten → **P**

Round 427 to the nearest ten → **U**

Round 927 to the nearest hundred → **I**

Round 2,889 to the nearest hundred → **R**

Round 72 to the nearest ten → **L**

Round 4,259 to the nearest hundred → **V**

Round 24 to the nearest ten → **A**

Round 1,123 to the nearest hundred → **N**

Round 200 to the nearest hundred → **E**

Round 2,293 to the nearest hundred → **D**

Round 323 to the nearest hundred → **O**

Round 3,733 to the nearest hundred → **H**

Round 726 to the nearest hundred → **S**

Scratch space:

CLUE 2 Addition

A pile of discarded iron ingots lies near the crime scene. Let's add up all the metal pieces to find out how many were stolen and get our next clue.

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

T																			
5468	4047	9503	3408	5799	2458	7386	7386	9503	4909	5694	9503	5468	9503	5799	5468	9503	5694	2458	

				T			T					T						
4592	2399	6271	7386	5468	7740	7386	5468	4047	9503	2399	9503	7433	5468	9503	4533	9503		

$2373 + 3095 = \square \rightarrow$ T	$4397 + 3036 = \square \rightarrow$ F	$2102 + 3592 = \square \rightarrow$ D
$4435 + 3305 = \square \rightarrow$ O	$2403 + 2130 = \square \rightarrow$ Y	$2490 + 3781 = \square \rightarrow$ I
$1888 + 2704 = \square \rightarrow$ G	$1984 + 1424 = \square \rightarrow$ S	$3782 + 5721 = \square \rightarrow$ E
$3574 + 2225 = \square \rightarrow$ C	$805 + 1594 = \square \rightarrow$ L	$3038 + 1871 = \square \rightarrow$ R
$953 + 1505 = \square \rightarrow$ A	$1874 + 2173 = \square \rightarrow$ H	$3768 + 3618 = \square \rightarrow$ N

Scratch space:

CLUE 3
Subtraction

The getaway bot used up some of its battery power during the escape. Subtract the lost power cells from the total to track its path.

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

A								A							A		
3672	8002	5471	7249	6042	7046	7288	1973	3672	7288	7046	2795	5471	1039	7249	3672	7288	8002

								A				A				
5471	6681	8753	8002	7249	6042	1847	6042	5471	1847	3672	1919	3437	5502	3672	7249	1039

$3986 - 314 = \square \rightarrow \boxed{\text{A}}$

$5839 - 4800 = \square \rightarrow \boxed{\text{D}}$

$6329 - 858 = \square \rightarrow \boxed{\text{T}}$

$8688 - 1439 = \square \rightarrow \boxed{\text{R}}$

$3610 - 1691 = \square \rightarrow \boxed{\text{C}}$

$6282 - 3487 = \square \rightarrow \boxed{\text{E}}$

$8755 - 753 = \square \rightarrow \boxed{\text{S}}$

$9466 - 713 = \square \rightarrow \boxed{\text{I}}$

$11024 - 3736 = \square \rightarrow \boxed{\text{G}}$

$1881 - 34 = \square \rightarrow \boxed{\text{B}}$

$10181 - 4679 = \square \rightarrow \boxed{\text{W}}$

$10587 - 3906 = \square \rightarrow \boxed{\text{H}}$

$11889 - 4843 = \square \rightarrow \boxed{\text{N}}$

$3850 - 1877 = \square \rightarrow \boxed{\text{M}}$

$5524 - 2087 = \square \rightarrow \boxed{\text{K}}$

$6637 - 595 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4

We found rows of redstone repeaters lined up on the ground. Multiply the rows by the columns to count them all and unlock another clue.

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

Diagram illustrating the sequence of boxes and their corresponding values:

Box Number	Box Content	Box Number	Box Content
1	G	10	
2		11	
3		12	
4		13	
5		14	
6		15	
7	G	16	
8		17	G
9		18	

Values associated with the boxes (from left to right):

100, 64, 70, 20, 81, 14, 100, 42, 70, 63, 63, 18, 121, 70, 121, 22, 14, 100, 18

Values associated with the boxes (from left to right):

20, 81, 121, 18, 10, 20, 18, 121, 18, 120, 121, 70, 63, 63, 18, 120

$10 \times 10 = \boxed{} \rightarrow \boxed{\text{G}}$

$10 \times 7 = \boxed{} \rightarrow \boxed{0}$

$$10 \times 12 = \boxed{} \rightarrow \mathbf{D}$$

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

$2 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$8 \times 8 = \boxed{} \rightarrow \boxed{\text{L}}$

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

$$5 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

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

$6 \times 7 = \square \rightarrow \boxed{\mathbf{C}}$

$$11 \times 11 = \boxed{} \rightarrow \boxed{\text{R}}$$

$2 \times 9 = \boxed{} \rightarrow \boxed{\text{E}}$

$$2 \times 11 = \boxed{} \rightarrow \boxed{\text{A}}$$

Scratch space:

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

The robotic guards want to split the remaining energy cubes equally among their squads. Divide the loot to solve the final clue.

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:

$15 \div 3 = \boxed{}$

$60 \div 6 = \boxed{}$

$3 \div 3 = \boxed{}$

$27 \div 9 = \boxed{}$

$22 \div 11 = \boxed{}$

$72 \div 9 = \boxed{}$

$77 \div 11 = \boxed{}$

$108 \div 9 = \boxed{}$

$30 \div 5 = \boxed{}$

$9 \div 1 = \boxed{}$

$77 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain marches safely across deep lava lakes, then drills a massive escape tunnel.
2. The villain fires a barrage of lit TNT blocks, then drills a massive escape tunnel.
3. The villain spawns infinite diamond blocks, then boosts the signal with a repeater.
4. The villain mines instantly through solid obsidian, then drills a massive escape tunnel.
5. The villain marches safely across deep lava lakes, then flies away high into the sky using hover jets.
6. The villain fires a barrage of lit TNT blocks, then flies away high into the sky using hover jets.
7. The villain teleports rapidly behind the target, then boosts the signal with a repeater.
8. The villain mines instantly through solid obsidian, then flies away high into the sky using hover jets.
9. The villain marches safely across deep lava lakes, then boosts the signal with a repeater.
10. The villain mines instantly through solid obsidian, then blocks all incoming attacks with an obsidian shield.
11. The villain fires a barrage of lit TNT blocks, then blocks all incoming attacks with an obsidian shield.
12. The villain spawns infinite diamond blocks, then blocks all incoming attacks with an obsidian shield.

Answer Key

The Redstone Hack

Culprit: Steve Tron

Auto-Mining · Diamond Drill · Left Redstone Eye · Copper Orange Wires · Magnet Pull

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE A REDSTONE REPEATER"

Round 230 to the nearest ten = 230 (T) · Round 46 to the nearest ten = 50 (P) · Round 427 to the nearest ten = 430 (U) · Round 927 to the nearest hundred = 900 (I) · Round 2,889 to the nearest hundred = 2900 (R) · Round 72 to the nearest ten = 70 (L) · Round 4,259 to the nearest hundred = 4300 (V) · Round 24 to the nearest ten = 20 (A) · Round 1,123 to the nearest hundred = 1100 (N) · Round 200 to the nearest hundred = 200 (E) · Round 2,293 to the nearest hundred = 2300 (D) · Round 323 to the nearest hundred = 300 (O) · Round 3,733 to the nearest hundred = 3700 (H) · Round 726 to the nearest hundred = 700 (S)

Clue 2 (Addition): "THE SCANNER DETECTED A GLINT ON THE LEFT EYE"

$2373 + 3095 = 5468$ (T) · $4397 + 3036 = 7433$ (F) · $2102 + 3592 = 5694$ (D) · $4435 + 3305 = 7740$ (O) · $2403 + 2130 = 4533$ (Y) · $2490 + 3781 = 6271$ (I) · $1888 + 2704 = 4592$ (G) · $1984 + 1424 = 3408$ (S) · $3782 + 5721 = 9503$ (E) · $3574 + 2225 = 5799$ (C) · $805 + 1594 = 2399$ (L) · $3038 + 1871 = 4909$ (R) · $953 + 1505 = 2458$ (A) · $1874 + 2173 = 4047$ (H) · $3768 + 3618 = 7386$ (N)

Clue 3 (Subtraction): "A STRONG MAGNET DRAGS THIS ROBOT BACKWARD"

$3986 - 314 = 3672$ (A) · $5839 - 4800 = 1039$ (D) · $6329 - 858 = 5471$ (T) · $8688 - 1439 = 7249$ (R) · $3610 - 1691 = 1919$ (C) · $6282 - 3487 = 2795$ (E) · $8755 - 753 = 8002$ (S) · $9466 - 713 = 8753$ (I) · $11024 - 3736 = 7288$ (G) · $1881 - 34 = 1847$ (B) · $10181 - 4679 = 5502$ (W) · $10587 - 3906 = 6681$ (H) · $11889 - 4843 = 7046$ (N) · $3850 - 1877 = 1973$ (M) · $5524 - 2087 = 3437$ (K) · $6637 - 595 = 6042$ (O)

Clue 4 (Multiplication facts (1-12)): "GLOWING COPPER ORANGE WIRES WERE DROPPED"

$10 \times 10 = 100$ (G) · $10 \times 7 = 70$ (O) · $10 \times 12 = 120$ (D) · $9 \times 7 = 63$ (P) · $2 \times 5 = 10$ (S) · $8 \times 8 = 64$ (L) · $2 \times 7 = 14$ (N) · $5 \times 4 = 20$ (W) · $9 \times 9 = 81$ (I) · $6 \times 7 = 42$ (C) · $11 \times 11 = 121$ (R) · $2 \times 9 = 18$ (E) · $2 \times 11 = 22$ (A)

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

$15 \div 3 = 5$ · $60 \div 6 = 10$ · $3 \div 3 = 1$ · $27 \div 9 = 3$ · $22 \div 11 = 2$ · $72 \div 9 = 8$ · $77 \div 11 = 7$ · $108 \div 9 = 12$ · $30 \div 5 = 6$ · $9 \div 1 = 9$ · $77 \div 7 = 11$