The Great Redstone Sabotage

Grade 3 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

During the annual Overworld Build Expo, a rogue griefer corrupted the central beacon network and raided the trophy vault. The Chief Server Admin needs your detective skills to decode server logs, analyze evidence dropped at the scene, and identify the culprit before the server resets.

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 griefer is _____

Possible suspects

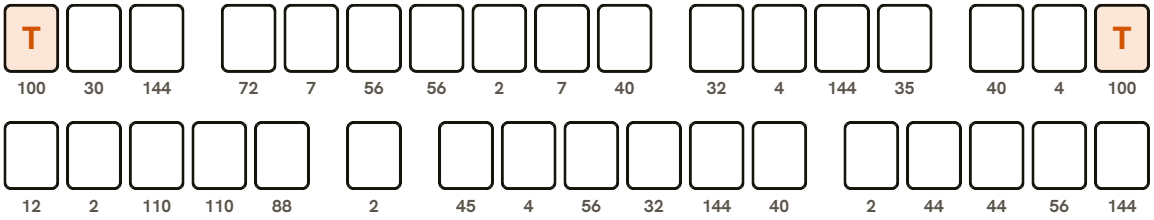
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	MAIN SKILL	DEFENSE ITEM	DOMINANT HAND	AVATAR HAIR	VULNERABILITY
Grian Craft	Elytra Gliding	Obsidian Wall	Right-Handed Swing	Blue Spikes	Glowstone Flash
Doc Monster	TNT Blasting	Diamond Armor	Left-Handed Swing	Orange Bangs	Glowstone Flash
Bdubs Builder	Elytra Gliding	Golden Apple	Left-Handed Swing	Orange Bangs	Splash Water Potion
Mumbo Jumbo	TNT Blasting	Golden Apple	Right-Handed Swing	Orange Bangs	Splash Water Potion
Steve Stone	Potion Brewing	Golden Apple	Left-Handed Swing	Orange Bangs	Vibration Bell Tone
False Symmetry	Ender Teleporting	Diamond Armor	Right-Handed Swing	Blue Spikes	Vibration Bell Tone
Alex Smith	Redstone Hacking	Obsidian Wall	Right-Handed Swing	Green Mohawk	Glowstone Flash
Stampy Cat	Redstone Hacking	Diamond Armor	Right-Handed Swing	Blue Spikes	Vibration Bell Tone
Dan TDM	Potion Brewing	Netherite Shield	Right-Handed Swing	Blue Spikes	Splash Water Potion
Captain Spark	Potion Brewing	Diamond Armor	Right-Handed Swing	Blue Spikes	Vibration Bell Tone
Ren Dog	Elytra Gliding	Diamond Armor	Left-Handed Swing	Green Mohawk	Splash Water Potion
Impulse SV	TNT Blasting	Golden Apple	Right-Handed Swing	Blue Spikes	Splash Water Potion
Good Times Scar	Ender Teleporting	Obsidian Wall	Right-Handed Swing	Green Mohawk	Vibration Bell Tone
Gemini Tay	Redstone Hacking	Obsidian Wall	Left-Handed Swing	Blue Spikes	Vibration Bell Tone
Ranboo Craft	Elytra Gliding	Obsidian Wall	Right-Handed Swing	Blue Spikes	Vibration Bell Tone
Xisuma Void	TNT Blasting	Diamond Armor	Left-Handed Swing	Green Mohawk	Splash Water Potion
Tango Tek	Potion Brewing	Diamond Armor	Right-Handed Swing	Blue Spikes	Splash Water Potion
Pearl Moon	Potion Brewing	Golden Apple	Right-Handed Swing	Blue Spikes	Vibration Bell Tone
Zombie Cleo	Ender Teleporting	Diamond Armor	Left-Handed Swing	Orange Bangs	Vibration Bell Tone
Cub Fan	Elytra Gliding	Diamond Armor	Right-Handed Swing	Green Mohawk	Splash Water Potion
Zedaph Plays	Potion Brewing	Obsidian Wall	Right-Handed Swing	Orange Bangs	Splash Water Potion

CLUE 1 Multiplication facts (1-12)

> To decrypt the server security log, you calculate the total blocks across equal craft stacks.

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



10 × 10 = ☐ → T	4 × 1 = ☐ → O	12 × 12 = ☐ → E
2 × 6 = ☐ → C	11 × 10 = ☐ → R	5 × 9 = ☐ → G
4 × 11 = ☐ → P	1 × 2 = ☐ → A	4 × 10 = ☐ → N
7 × 1 = ☐ → I	4 × 8 = ☐ → D	7 × 8 = ☐ → L
3 × 10 = ☐ → H	11 × 8 = ☐ → Y	5 × 7 = ☐ → S

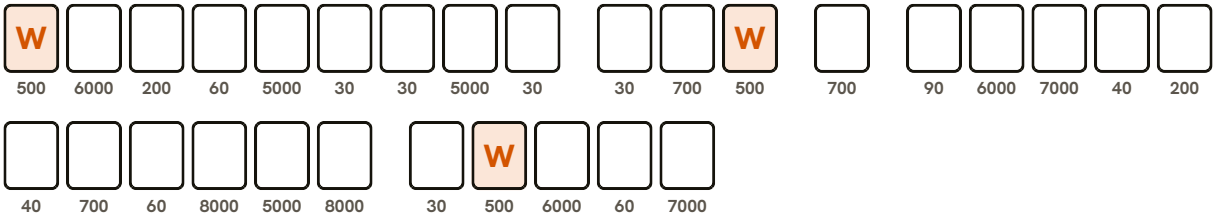
8 × 9 = ☐ → V	

Scratch space:

CLUE 2 Rounding

The redstone signal monitor rounds energy spikes to the nearest hundred to isolate the breach.

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



Round 474 to the nearest hundred ☐ → W

Round 198 to the nearest hundred ☐ → T

Round 32 to the nearest ten ☐ → S

Round 7,160 to the nearest thousand ☐ → G

Round 6,144 to the nearest thousand ☐ → I

Round 92 to the nearest ten ☐ → R

Round 42 to the nearest ten ☐ → H

Round 7,654 to the nearest thousand ☐ → D

Round 4,678 to the nearest thousand ☐ → E

Round 59 to the nearest ten ☐ → N

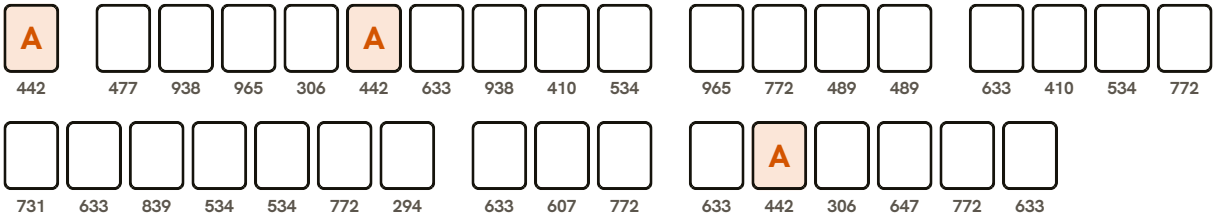
Round 660 to the nearest hundred ☐ → A

Scratch space:

CLUE 3 Addition

You combine inventory counts from two ruined supply chests to locate missing data.

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



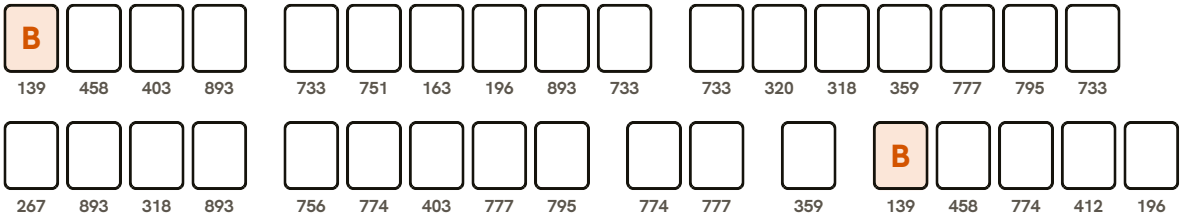
172 + 270 = ☐ → A	556 + 409 = ☐ → B	426 + 512 = ☐ → I
252 + 282 = ☐ → N	399 + 332 = ☐ → S	331 + 302 = ☐ → T
139 + 271 = ☐ → O	347 + 425 = ☐ → E	123 + 171 = ☐ → D
228 + 379 = ☐ → H	217 + 260 = ☐ → V	178 + 311 = ☐ → L
203 + 103 = ☐ → R	203 + 444 = ☐ → G	551 + 288 = ☐ → U

Scratch space:

CLUE 4 Subtraction

You deduct stolen lapis lazuli from the vault stash to narrow down the raid time.

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



421 - 282 = ☐ → B

494 - 298 = ☐ → K

836 - 378 = ☐ → L

552 - 193 = ☐ → A

1273 - 380 = ☐ → E

664 - 261 = ☐ → U

238 - 75 = ☐ → I

284 - 17 = ☐ → W

976 - 225 = ☐ → P

1098 - 365 = ☐ → S

1155 - 378 = ☐ → N

797 - 2 = ☐ → D

858 - 84 = ☐ → O

885 - 129 = ☐ → F

801 - 389 = ☐ → C

583 - 265 = ☐ → R

387 - 67 = ☐ → T

Scratch space:

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

> You split the server error codes equally among five diagnostic routines to reveal a hint.

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:

54 ÷ 9 = ☐	12 ÷ 1 = ☐	54 ÷ 6 = ☐	60 ÷ 6 = ☐	8 ÷ 4 = ☐
15 ÷ 5 = ☐	33 ÷ 3 = ☐	36 ÷ 9 = ☐	7 ÷ 1 = ☐	6 ÷ 6 = ☐
40 ÷ 5 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain detonated TNT charges, then consumed a golden apple.
2. The villain brewed splash weakness potions, then consumed a golden apple.
3. The villain teleported through the portal, then raised a netherite shield.
4. The villain brewed splash weakness potions, then erected a thick obsidian wall.
5. The villain teleported through the portal, then donned heavy diamond armor.
6. The villain glided in with elytra wings, then erected a thick obsidian wall.
7. The villain hacked the redstone circuit, then erected a thick obsidian wall.
8. The villain glided in with elytra wings, then donned heavy diamond armor.
9. The villain hacked the redstone circuit, then donned heavy diamond armor.
10. The villain hacked the redstone circuit, then raised a netherite shield.
11. The villain detonated TNT charges, then raised a netherite shield.
12. The villain brewed splash weakness potions, then donned heavy diamond armor.

TEACHER / PARENT

Answer Key

The Great Redstone Sabotage

Culprit: False Symmetry

Ender Teleporting · Diamond Armor · Right-Handed Swing · Blue Spikes · Vibration Bell Tone

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT CARRY A GOLDEN APPLE"

10 × 10 = 100 (T) · 4 × 1 = 4 (O) · 12 × 12 = 144 (E) · 2 × 6 = 12 (C) · 11 × 10 = 110 (R) · 5 × 9 = 45 (G) · 4 × 11 = 44 (P) · 1 × 2 = 2 (A) · 4 × 10 = 40 (N) · 7 × 1 = 7 (I) · 4 × 8 = 32 (D) · 7 × 8 = 56 (L) · 8 × 9 = 72 (V) · 3 × 10 = 30 (H) · 11 × 8 = 88 (Y) · 5 × 7 = 35 (S)

Clue 2 (Rounding): "WITNESSES SAW A RIGHT HANDED SWING"

Round 474 to the nearest hundred = 500 (W) · Round 198 to the nearest hundred = 200 (T) · Round 32 to the nearest ten = 30 (S) · Round 7,160 to the nearest thousand = 7000 (G) · Round 6,144 to the nearest thousand = 6000 (I) · Round 92 to the nearest ten = 90 (R) · Round 42 to the nearest ten = 40 (H) · Round 7,654 to the nearest thousand = 8000 (D) · Round 4,678 to the nearest thousand = 5000 (E) · Round 59 to the nearest ten = 60 (N) · Round 660 to the nearest hundred = 700 (A)

Clue 3 (Addition): "A VIBRATION BELL TONE STUNNED THE TARGET"

172 + 270 = 442 (A) · 556 + 409 = 965 (B) · 426 + 512 = 938 (I) · 252 + 282 = 534 (N) · 399 + 332 = 731 (S) · 331 + 302 = 633 (T) · 139 + 271 = 410 (O) · 347 + 425 = 772 (E) · 123 + 171 = 294 (D) · 228 + 379 = 607 (H) · 217 + 260 = 477 (V) · 178 + 311 = 489 (L) · 203 + 103 = 306 (R) · 203 + 444 = 647 (G) · 551 + 288 = 839 (U)

Clue 4 (Subtraction): "BLUE SPIKES STRANDS WERE FOUND ON A BLOCK"

421 - 282 = 139 (B) · 494 - 298 = 196 (K) · 836 - 378 = 458 (L) · 552 - 193 = 359 (A) · 1273 - 380 = 893 (E) · 664 - 261 = 403 (U) · 238 - 75 = 163 (I) · 284 - 17 = 267 (W) · 976 - 225 = 751 (P) · 1098 - 365 = 733 (S) · 1155 - 378 = 777 (N) · 797 - 2 = 795 (D) · 858 - 84 = 774 (O) · 885 - 129 = 756 (F) · 801 - 389 = 412 (C) · 583 - 265 = 318 (R) · 387 - 67 = 320 (T)

Clue 5 (Division facts (1-12)): surviving statement is box 5 → False Symmetry

54 ÷ 9 = 6 · 12 ÷ 1 = 12 · 54 ÷ 6 = 9 · 60 ÷ 6 = 10 · 8 ÷ 4 = 2 · 15 ÷ 5 = 3 · 33 ÷ 3 = 11 · 36 ÷ 9 = 4 · 7 ÷ 1 = 7 · 6 ÷ 6 = 1 · 40 ÷ 5 = 8