# The Great Redstone Vault Heist

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

**Detective:** _____ **Date:** _____

A rogue player breached the encrypted obsidian vault beneath the Spawn Hub, sabotaging the server mainframe and making off with the legendary Dragon Egg. Clues left behind at the craft sites point toward twenty-four active members of the guild. Analyze the server logs and physical evidence to unmask the griefer before they ruin the entire realm.

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.

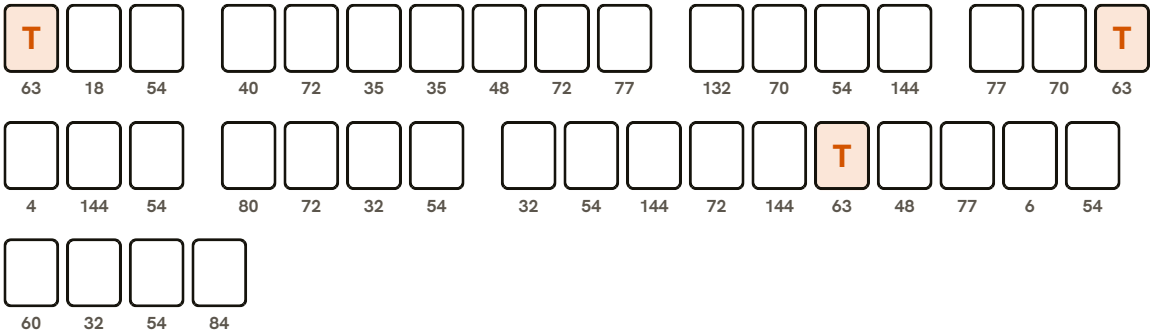
| NAME | PRIMARY GEAR | DEFENSIVE UTILITY | TORCH STANCE | AVATAR HAIR | COUNTER TRAP |
|---|---|---|---|---|---|
| **ForgeFinn** | Elytra Wings | Diamond Chestplate | Right Handed Torch Holder | Dark Oak Spiky Hair | Lapis Lazuli Powder |
| **VoxelViper** | Ender Teleportation | Netherite Shield | Right Handed Torch Holder | Dark Oak Spiky Hair | Lapis Lazuli Powder |
| **ArmorXander** | Speed IV Potion | Diamond Chestplate | Left Handed Torch Holder | Obsidian Black Locks | Lapis Lazuli Powder |
| **BlockMasterJax** | Redstone Pulse | Netherite Shield | Right Handed Torch Holder | Dark Oak Spiky Hair | Lapis Lazuli Powder |
| **NetherNora** | Speed IV Potion | Fire Resistance Brew | Right Handed Torch Holder | Obsidian Black Locks | Sweet Berry Bush |
| **DungeonDrew** | Elytra Wings | Netherite Shield | Right Handed Torch Holder | Golden Blonde Ponytail | Splash Water Bottle |
| **GlitchGavin** | Redstone Pulse | Diamond Chestplate | Right Handed Torch Holder | Golden Blonde Ponytail | Sweet Berry Bush |
| **EmeraldElla** | Ender Teleportation | Golden Apple | Right Handed Torch Holder | Dark Oak Spiky Hair | Lapis Lazuli Powder |
| **ShadowSteve** | Speed IV Potion | Diamond Chestplate | Right Handed Torch Holder | Dark Oak Spiky Hair | Splash Water Bottle |
| **RedstoneRhea** | Elytra Wings | Golden Apple | Left Handed Torch Holder | Dark Oak Spiky Hair | Lapis Lazuli Powder |
| **SaddleSam** | Redstone Pulse | Golden Apple | Right Handed Torch Holder | Obsidian Black Locks | Splash Water Bottle |
| **ElytraEva** | TNT Launcher | Fire Resistance Brew | Right Handed Torch Holder | Dark Oak Spiky Hair | Lapis Lazuli Powder |
| **EnderKira** | Elytra Wings | Golden Apple | Left Handed Torch Holder | Dark Oak Spiky Hair | Sweet Berry Bush |
| **CreeperChris** | Elytra Wings | Diamond Chestplate | Right Handed Torch Holder | Dark Oak Spiky Hair | Splash Water Bottle |
| **BedrockBree** | Speed IV Potion | Diamond Chestplate | Right Handed Torch Holder | Obsidian Black Locks | Splash Water Bottle |
| **GolemGabe** | Elytra Wings | Fire Resistance Brew | Right Handed Torch Holder | Dark Oak Spiky Hair | Sweet Berry Bush |
| **QuartzQuinn** | Ender Teleportation | Netherite Shield | Left Handed Torch Holder | Golden Blonde Ponytail | Sweet Berry Bush |
| **ObsidianOwen** | TNT Launcher | Netherite Shield | Left Handed Torch Holder | Golden Blonde Ponytail | Lapis Lazuli Powder |
| **ChorusCody** | Elytra Wings | Turtle Shell | Right Handed Torch Holder | Dark Oak Spiky Hair | Splash Water Bottle |
| **BeaconBlake** | TNT Launcher | Diamond Chestplate | Right Handed Torch Holder | Golden Blonde Ponytail | Lapis Lazuli Powder |
| **PrismarinePete** | Ender Teleportation | Netherite Shield | Right Handed Torch Holder | Golden Blonde Ponytail | Sweet Berry Bush |

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## CLUE 1 Multiplication facts (1-12)

> To decrypt the server log's first lock, you tally the double chests filled with redstone repeater stacks.

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



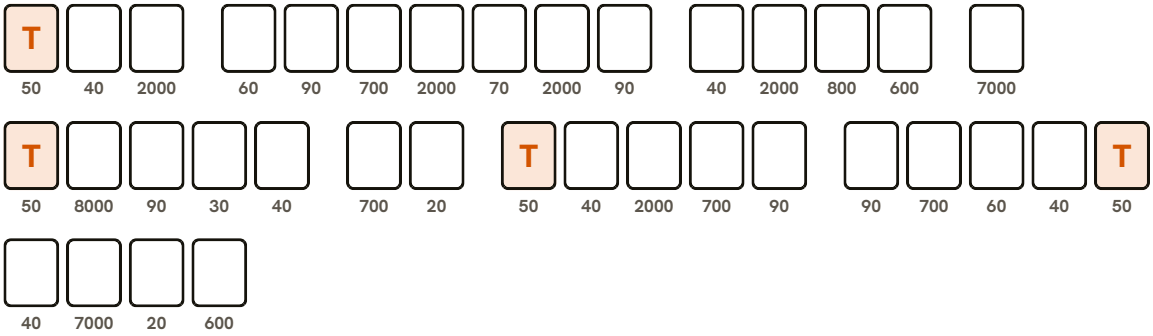

| | | |
|---|---|---|
| 7 × 9 = ☐ → T | 9 × 2 = ☐ → H | 5 × 8 = ☐ → V |
| 12 × 12 = ☐ → S | 11 × 12 = ☐ → D | 10 × 6 = ☐ → B |
| 6 × 8 = ☐ → A | 7 × 12 = ☐ → W | 8 × 10 = ☐ → F |
| 2 × 2 = ☐ → U | 8 × 4 = ☐ → R | 9 × 8 = ☐ → I | 7 × 10 = ☐ → O |
| 11 × 7 = ☐ → N | 7 × 5 = ☐ → L | 2 × 3 = ☐ → C | 6 × 9 = ☐ → E |

Scratch space:

## CLUE 2 Rounding

The security beacon's power monitor automatically rounds off energy readings to the nearest hundred.

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




Round 52 to the nearest ten ☐ → T

Round 37 to the nearest ten ☐ → H

Round 594 to the nearest hundred ☐ → D

Round 64 to the nearest ten ☐ → G

Round 6,592 to the nearest thousand ☐ → A

Round 86 to the nearest ten ☐ → R

Round 7,965 to the nearest thousand ☐ → O

Round 71 to the nearest ten ☐ → F

Round 2,335 to the nearest thousand ☐ → E

Round 33 to the nearest ten ☐ → C

Round 849 to the nearest hundred ☐ → L

Round 715 to the nearest hundred ☐ → I

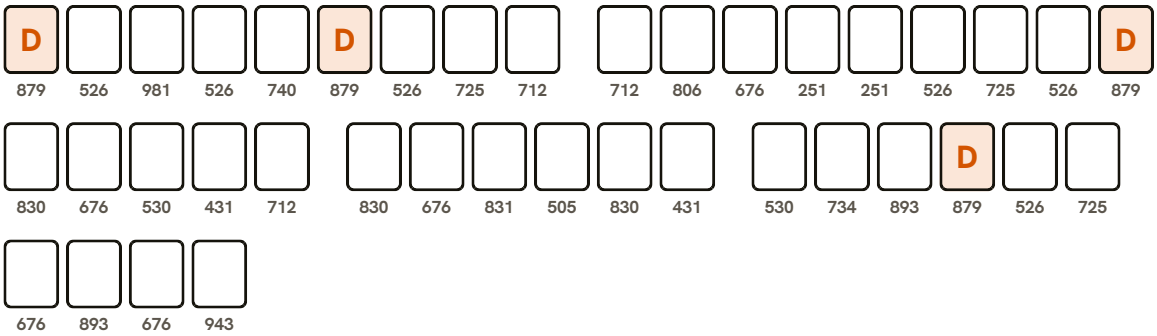
Round 21 to the nearest ten ☐ → N

Scratch space:

## CLUE 3 Addition

> Investigating the breached vault requires adding up the missing iron ingot totals across three separate supply crates.

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




615 + 264 = ☐ → D

185 + 320 = ☐ → U

325 + 415 = ☐ → N

337 + 339 = ☐ → A

239 + 192 = ☐ → I

363 + 371 = ☐ → O

170 + 360 = ☐ → P

254 + 471 = ☐ → R

560 + 383 = ☐ → Y

536 + 270 = ☐ → C

324 + 506 = ☐ → L

162 + 89 = ☐ → T

448 + 533 = ☐ → F

527 + 366 = ☐ → W

260 + 266 = ☐ → E

273 + 558 = ☐ → Z

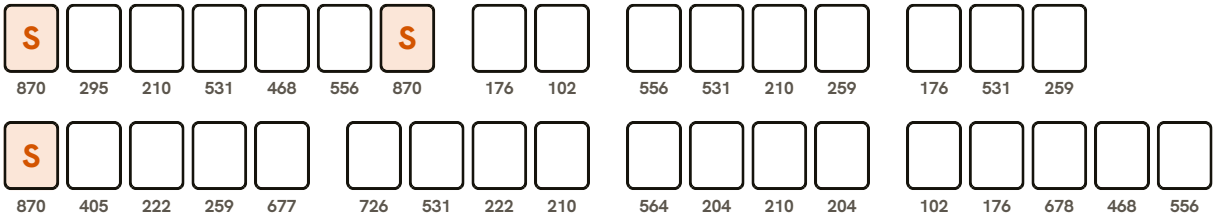
468 + 244 = ☐ → S

Scratch space:

## CLUE 4 Subtraction

To pinpoint when the barrier collapsed, calculate the remaining durability points on the mainframe anvil.

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




1201 - 331 = ☐ → S

658 - 127 = ☐ → A

657 - 398 = ☐ → K

908 - 231 = ☐ → Y

875 - 311 = ☐ → W

122 - 20 = ☐ → F

516 - 111 = ☐ → P

590 - 368 = ☐ → I

774 - 96 = ☐ → U

808 - 252 = ☐ → D

564 - 360 = ☐ → E

949 - 223 = ☐ → H

411 - 116 = ☐ → T

833 - 365 = ☐ → N

384 - 208 = ☐ → O

349 - 139 = ☐ → R

Scratch space:

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

> The automated hopper network divided the displaced emerald shards equally into the intake chutes.

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:**

| | | | | |
|---|---|---|---|---|
| 10 ÷ 1 = ☐ | 4 ÷ 1 = ☐ | 8 ÷ 8 = ☐ | 5 ÷ 1 = ☐ | 21 ÷ 7 = ☐ |
| 24 ÷ 12 = ☐ | 7 ÷ 1 = ☐ | 12 ÷ 2 = ☐ | 96 ÷ 12 = ☐ | 84 ÷ 7 = ☐ |
| 45 ÷ 5 = ☐ | | | | |

**Step 2 - cross out the sentence with each answer:**

1. The villain soared on elytra wings, then donned a diamond chestplate.
2. The villain chugged a speed potion, then donned a diamond chestplate.
3. The villain primed a tnt launcher, then chugged fire resistance brew.
4. The villain warped via ender teleportation, then raised a netherite shield.
5. The villain warped via ender teleportation, then chugged fire resistance brew.
6. The villain primed a tnt launcher, then raised a netherite shield.
7. The villain chugged a speed potion, then equipped a turtle shell.
8. The villain triggered a redstone pulse, then equipped a turtle shell.
9. The villain soared on elytra wings, then chugged fire resistance brew.
10. The villain warped via ender teleportation, then ate a golden apple.
11. The villain triggered a redstone pulse, then raised a netherite shield.
12. The villain warped via ender teleportation, then donned a diamond chestplate.

TEACHER / PARENT

# Answer Key

The Great Redstone Vault Heist

## Culprit: BlockMasterJax

Redstone Pulse · Netherite Shield · Right Handed Torch Holder · Dark Oak Spiky Hair · Lapis Lazuli Powder

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 5 → Clue 4 4 → Clue 5 1

### Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE FIRE RESISTANCE BREW"

7 × 9 = 63 (T) · 9 × 2 = 18 (H) · 5 × 8 = 40 (V) · 12 × 12 = 144 (S) · 11 × 12 = 132 (D) · 10 × 6 = 60 (B) · 6 × 8 = 48 (A) · 7 × 12 = 84 (W) · 8 × 10 = 80 (F) · 2 × 2 = 4 (U) · 8 × 4 = 32 (R) · 9 × 8 = 72 (I) · 7 × 10 = 70 (O) · 11 × 7 = 77 (N) · 7 × 5 = 35 (L) · 2 × 3 = 6 (C) · 6 × 9 = 54 (E)

### Clue 2 (Rounding): "THE GRIEFER HELD A TORCH IN THEIR RIGHT HAND"

Round 52 to the nearest ten = 50 (T) · Round 37 to the nearest ten = 40 (H) · Round 594 to the nearest hundred = 600 (D) · Round 64 to the nearest ten = 60 (G) · Round 6,592 to the nearest thousand = 7000 (A) · Round 86 to the nearest ten = 90 (R) · Round 7,965 to the nearest thousand = 8000 (O) · Round 71 to the nearest ten = 70 (F) · Round 2,335 to the nearest thousand = 2000 (E) · Round 33 to the nearest ten = 30 (C) · Round 849 to the nearest hundred = 800 (L) · Round 715 to the nearest hundred = 700 (I) · Round 21 to the nearest ten = 20 (N)

### Clue 3 (Addition): "DEFENDERS SCATTERED LAPIS LAZULI POWDER AWAY"

615 + 264 = 879 (D) · 185 + 320 = 505 (U) · 325 + 415 = 740 (N) · 337 + 339 = 676 (A) · 239 + 192 = 431 (I) · 363 + 371 = 734 (O) · 170 + 360 = 530 (P) · 254 + 471 = 725 (R) · 560 + 383 = 943 (Y) · 536 + 270 = 806 (C) · 324 + 506 = 830 (L) · 162 + 89 = 251 (T) · 448 + 533 = 981 (F) · 527 + 366 = 893 (W) · 260 + 266 = 526 (E) · 273 + 558 = 831 (Z) · 468 + 244 = 712 (S)

### Clue 4 (Subtraction): "STRANDS OF DARK OAK SPIKY HAIR WERE FOUND"

1201 - 331 = 870 (S) · 658 - 127 = 531 (A) · 657 - 398 = 259 (K) · 908 - 231 = 677 (Y) · 875 - 311 = 564 (W) · 122 - 20 = 102 (F) · 516 - 111 = 405 (P) · 590 - 368 = 222 (I) · 774 - 96 = 678 (U) · 808 - 252 = 556 (D) · 564 - 360 = 204 (E) · 949 - 223 = 726 (H) · 411 - 116 = 295 (T) · 833 - 365 = 468 (N) · 384 - 208 = 176 (O) · 349 - 139 = 210 (R)

### Clue 5 (Division facts (1-12)): surviving statement is box 11 → BlockMasterJax

10 ÷ 1 = 10 · 4 ÷ 1 = 4 · 8 ÷ 8 = 1 · 5 ÷ 1 = 5 · 21 ÷ 7 = 3 · 24 ÷ 12 = 2 · 7 ÷ 1 = 7 · 12 ÷ 2 = 6 · 96 ÷ 12 = 8 · 84 ÷ 7 = 12 · 45 ÷ 5 = 9