



The Pixel Hills Glitch

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

A sneaky player has hacked the server admin vault, stealing the legendary Netherite Crown and spawning wild creepers. We must crack the code and find the Griefing Glitch before the world gets wiped.

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 Griefing Glitch is _____

Possible suspects

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

NAME	HACKED TOOL	OFFHAND ITEM	MOVEMENT STYLE	CHARACTER SKIN HAIR	SERVER WEAKNESS
Dream	Ender Pearl	Water Bucket	Sneak Bridging	Spiky Blue	Lag Spikes
Lizzie	Elytra Wings	Enchanted Book	Sneak Bridging	Blocky Yellow	Water Blocks
Steve	Redstone Dust	Totem of Undying	Jitter Clicking	Blocky Yellow	Water Blocks
Ranboo	Elytra Wings	Splash Potion	Sneak Bridging	Blocky Yellow	Water Blocks
Tommy	Ender Pearl	Golden Apple	Sneak Bridging	Spiky Blue	Lag Spikes
Scar	Elytra Wings	Splash Potion	Jitter Clicking	Blocky Yellow	Water Blocks
Alex	Redstone Dust	Water Bucket	Sneak Bridging	Blocky Yellow	Water Blocks
GlitchHunter	Ender Pearl	Splash Potion	Sneak Bridging	Square Green	Lag Spikes
RedstonePro	Redstone Dust	Enchanted Book	Sneak Bridging	Blocky Yellow	Lava Pits
Aaron	Redstone Dust	Enchanted Book	Jitter Clicking	Square Green	Lag Spikes
Squeak	Redstone Dust	Golden Apple	Jitter Clicking	Blocky Yellow	Lag Spikes
CaptainSparklez	Diamond Pickaxe	Totem of Undying	Jitter Clicking	Spiky Blue	Lava Pits
Grian	Ender Pearl	Enchanted Book	Sneak Bridging	Blocky Yellow	Water Blocks
Crafty	Elytra Wings	Totem of Undying	Sneak Bridging	Square Green	Lava Pits
Aphmau	Fire Charge	Water Bucket	Sneak Bridging	Blocky Yellow	Lava Pits
Joel	Diamond Pickaxe	Totem of Undying	Sneak Bridging	Blocky Yellow	Lava Pits
Tubbo	Elytra Wings	Water Bucket	Sneak Bridging	Square Green	Water Blocks
George	Diamond Pickaxe	Golden Apple	Jitter Clicking	Square Green	Water Blocks
Stampy	Diamond Pickaxe	Splash Potion	Sneak Bridging	Blocky Yellow	Water Blocks
DanTDM	Ender Pearl	Totem of Undying	Sneak Bridging	Square Green	Water Blocks
PixelBoy	Diamond Pickaxe	Golden Apple	Sneak Bridging	Spiky Blue	Lava Pits

CLUE 1 Fractions of a number

The admin counts the ruined obsidian chests in the main base. A fraction of them still contain clues about the culprit.

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

A 2x10 grid of boxes. The top row contains the following sequence: an orange box with 'T', three empty boxes, an orange box with 'T', three empty boxes, an orange box with 'T', three empty boxes, and three empty boxes. The bottom row contains: an empty box, an orange box with 'T', three empty boxes, an empty box, an orange box with 'T', and six empty boxes.

T					T														
8	24	19	27	37	22	8	18	24	21	40	19	38	25	40	8	13	38	19	
			T																
29	17	29	8	19	14	7	13	18	15	19	8								

2/6 of 24 = → **T**

$$2/4 \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{H}}$$

$3/6$ of $38 = \boxed{} \rightarrow \boxed{\text{E}}$

2/8 of 100 = → **N**

4/8 of 44 = →

$4/8$ of 74 = $\rightarrow$ **L**

$$\frac{2}{3} \text{ of } 21 = \boxed{} \rightarrow \mathbf{R}$$

$1/10$ of 70 = $\rightarrow$ **B**

$$\frac{1}{6} \text{ of } 162 = \boxed{} \rightarrow \mathbf{G}$$

$2/5$ of 45 = $\rightarrow$ **C**

$\frac{1}{4}$ of 52 = $\rightarrow$ **U**

2/6 of 120 = →

$2/6$ of $63 = \square \rightarrow \mathbf{D}$

2/6 of 114 = → **S**

5/10 of 30 = → **K**

5/10 of 58 = → **A**

$$\frac{1}{6} \text{ of } 102 = \boxed{} \rightarrow \boxed{\text{W}}$$

Scratch space:

CLUE 2

Order of operations

To decode the security system logs, we must follow the strict priority order of the backup terminal steps.

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

T									T							
29	47	24	15	21	25	78	60	73	29	10	63	35	35	24	24	49

35	49	24	63	66	31	60	73	45	19	73	49	19

$5 + 4 \times 6 = \square \rightarrow \boxed{\text{T}}$

$12 \times 2 - 14 = \square \rightarrow \boxed{\text{W}}$

$6 \times 8 - 3 = \square \rightarrow \boxed{\text{D}}$

$74 + 2 \times 2 = \square \rightarrow \boxed{\text{P}}$

$3 + 7 \times 3 = \square \rightarrow \boxed{\text{E}}$

$5 + 8 \times 2 = \square \rightarrow \boxed{\text{U}}$

$2 + 5 \times 9 = \square \rightarrow \boxed{\text{H}}$

$15 + 9 \times 5 = \square \rightarrow \boxed{\text{R}}$

$8 \times 4 - 7 = \square \rightarrow \boxed{\text{L}}$

$3 + 3 \times 4 = \square \rightarrow \boxed{\text{C}}$

$39 + 6 \times 4 = \square \rightarrow \boxed{\text{A}}$

$23 + 2 \times 6 = \square \rightarrow \boxed{\text{S}}$

$11 \times 2 - 3 = \square \rightarrow \boxed{\text{G}}$

$10 \times 8 - 14 = \square \rightarrow \boxed{\text{K}}$

$58 + 5 \times 3 = \square \rightarrow \boxed{\text{I}}$

$15 + 2 \times 8 = \square \rightarrow \boxed{\text{B}}$

$31 + 3 \times 6 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

We find a chest filled with stacks of iron ingots. Calculating the rows and columns reveals the thief's direction.

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

T						T					T						
18	35	11	1	84	12	18	80	35	12	25	18	27	120	10	10	11	55

				T									
144	44	66	120	18	11	27	144	84	56	80	9	25	

$9 \times 2 = \square \rightarrow \text{T}$

$12 \times 12 = \square \rightarrow \text{B}$

$11 \times 4 = \square \rightarrow \text{Y}$

$6 \times 2 = \square \rightarrow \text{I}$

$7 \times 12 = \square \rightarrow \text{L}$

$3 \times 9 = \square \rightarrow \text{R}$

$9 \times 1 = \square \rightarrow \text{K}$

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

$5 \times 11 = \square \rightarrow \text{D}$

$6 \times 11 = \square \rightarrow \text{W}$

$8 \times 10 = \square \rightarrow \text{C}$

$7 \times 5 = \square \rightarrow \text{H}$

$1 \times 1 = \square \rightarrow \text{G}$

$11 \times 1 = \square \rightarrow \text{E}$

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

$5 \times 2 = \square \rightarrow \text{P}$

$8 \times 7 = \square \rightarrow \text{O}$

Scratch space:

CLUE 4

Rounding

The server lag radar shows a player coordinate, but the signal is weak and only displays the nearest tens digit.

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

A				A										
230	4300	290	170	230	20	2900	700	200	70	1300	700	50	110	1100
							A				A			
1100	900	1300	1300	700	3700	1700	230	90	170	3700	230	4300	1300	900

Round 230 to the nearest ten → **A**

Round 1,730 to the nearest hundred → **H**

Round 1,272 to the nearest hundred → **L**

Round 894 to the nearest hundred → **E**

Round 169 to the nearest ten → **R**

Round 110 to the nearest ten → **K**

Round 2,867 to the nearest hundred → **D**

Round 286 to the nearest ten → **T**

Round 1,087 to the nearest hundred → **Y**

Round 24 to the nearest ten → **N**

Round 4,296 to the nearest hundred → **S**

Round 86 to the nearest ten → **I**

Round 53 to the nearest ten → **C**

Round 68 to the nearest ten → **B**

Round 216 to the nearest hundred → **F**

Round 3,728 to the nearest hundred → **W**

Round 654 to the nearest hundred → **O**

Scratch space:

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

We split the remaining ender pearls equally among the server defense team to pinpoint where the glitch fled.

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:

$40 \div 4 = \boxed{}$

$20 \div 10 = \boxed{}$

$55 \div 5 = \boxed{}$

$8 \div 2 = \boxed{}$

$40 \div 8 = \boxed{}$

$14 \div 2 = \boxed{}$

$24 \div 8 = \boxed{}$

$6 \div 6 = \boxed{}$

$8 \div 1 = \boxed{}$

$72 \div 12 = \boxed{}$

$24 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain digs through the bedrock, then scoops up the lava with a bucket.
2. The villain teleports behind the secure wall, then decodes an ancient enchanted book.
3. The villain creates a redstone clock circuit, then tosses a lingering splash potion.
4. The villain glides down from the build height, then eats a glowing golden apple.
5. The villain creates a redstone clock circuit, then triggers a totem of undying.
6. The villain creates a redstone clock circuit, then eats a glowing golden apple.
7. The villain glides down from the build height, then scoops up the lava with a bucket.
8. The villain creates a redstone clock circuit, then scoops up the lava with a bucket.
9. The villain glides down from the build height, then tosses a lingering splash potion.
10. The villain glides down from the build height, then decodes an ancient enchanted book.
11. The villain digs through the bedrock, then tosses a lingering splash potion.
12. The villain digs through the bedrock, then triggers a totem of undying.

Answer Key

The Pixel Hills Glitch

Culprit: Ranboo

Elytra Wings · Splash Potion · Sneak Bridging · Blocky Yellow · Water Blocks

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE GLITCH DOES NOT USE A WATER BUCKET"

$2/6$ of 24 = 8 (T) · $2/4$ of 48 = 24 (H) · $3/6$ of 38 = 19 (E) · $2/8$ of 100 = 25 (N) · $4/8$ of 44 = 22 (I) · $4/8$ of 74 = 37 (L) · $2/3$ of 21 = 14 (R) · $1/10$ of 70 = 7 (B) · $1/6$ of 162 = 27 (G) · $2/5$ of 45 = 18 (C) · $1/4$ of 52 = 13 (U) · $2/6$ of 120 = 40 (O) · $2/6$ of 63 = 21 (D) · $2/6$ of 114 = 38 (S) · $5/10$ of 30 = 15 (K) · $5/10$ of 58 = 29 (A) · $1/6$ of 102 = 17 (W)

Clue 2 (Order of operations): "THE CULPRIT WAS SEEN SNEAK BRIDGING"

$5 + 4 \times 6 = 29$ (T) · $12 \times 2 - 14 = 10$ (W) · $6 \times 8 - 3 = 45$ (D) · $74 + 2 \times 2 = 78$ (P) · $3 + 7 \times 3 = 24$ (E) · $5 + 8 \times 2 = 21$ (U) · $2 + 5 \times 9 = 47$ (H) · $15 + 9 \times 5 = 60$ (R) · $8 \times 4 - 7 = 25$ (L) · $3 + 3 \times 4 = 15$ (C) · $39 + 6 \times 4 = 63$ (A) · $23 + 2 \times 6 = 35$ (S) · $11 \times 2 - 3 = 19$ (G) · $10 \times 8 - 14 = 66$ (K) · $58 + 5 \times 3 = 73$ (I) · $15 + 2 \times 8 = 31$ (B) · $31 + 3 \times 6 = 49$ (N)

Clue 3 (Multiplication facts (1-12)): "THE GLITCH IS TRAPPED BY WATER BLOCKS"

$9 \times 2 = 18$ (T) · $12 \times 12 = 144$ (B) · $11 \times 4 = 44$ (Y) · $6 \times 2 = 12$ (I) · $7 \times 12 = 84$ (L) · $3 \times 9 = 27$ (R) · $9 \times 1 = 9$ (K) · $12 \times 10 = 120$ (A) · $5 \times 11 = 55$ (D) · $6 \times 11 = 66$ (W) · $8 \times 10 = 80$ (C) · $7 \times 5 = 35$ (H) · $1 \times 1 = 1$ (G) · $11 \times 1 = 11$ (E) · $5 \times 5 = 25$ (S) · $5 \times 2 = 10$ (P) · $8 \times 7 = 56$ (O)

Clue 4 (Rounding): "A STRAND OF BLOCKY YELLOW HAIR WAS LEFT"

Round 230 to the nearest ten = 230 (A) · Round 1,730 to the nearest hundred = 1700 (H) · Round 1,272 to the nearest hundred = 1300 (L) · Round 894 to the nearest hundred = 900 (E) · Round 169 to the nearest ten = 170 (R) · Round 110 to the nearest ten = 110 (K) · Round 2,867 to the nearest hundred = 2900 (D) · Round 286 to the nearest ten = 290 (T) · Round 1,087 to the nearest hundred = 1100 (Y) · Round 24 to the nearest ten = 20 (N) · Round 4,296 to the nearest hundred = 4300 (S) · Round 86 to the nearest ten = 90 (I) · Round 53 to the nearest ten = 50 (C) · Round 68 to the nearest ten = 70 (B) · Round 216 to the nearest hundred = 200 (F) · Round 3,728 to the nearest hundred = 3700 (W) · Round 654 to the nearest hundred = 700 (O)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Ranboo

$40 \div 4 = 10$ · $20 \div 10 = 2$ · $55 \div 5 = 11$ · $8 \div 2 = 4$ · $40 \div 8 = 5$ · $14 \div 2 = 7$ · $24 \div 8 = 3$ · $6 \div 6 = 1$ · $8 \div 1 = 8$ · $72 \div 12 = 6$ · $24 \div 2 = 12$