The Mystery of the Broken Beacon

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

Detective: _____ **Date:** _____

Oh no! A mysterious Griefer has deactivated the main spawn beacon and locked the Server Admin out of the console! We must decode the server logs 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 Griefer is _____

Possible suspects

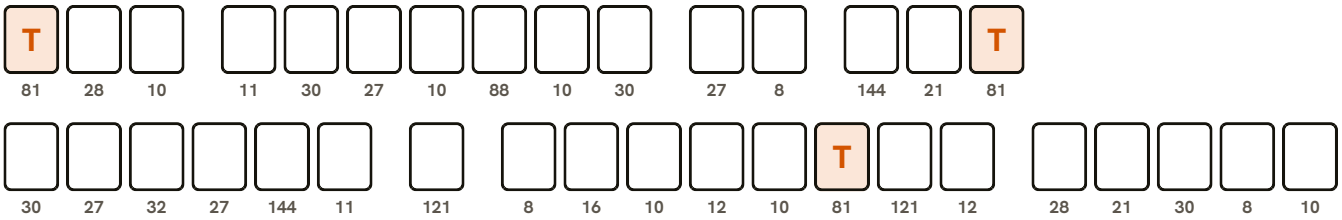
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	GRIEFING POWER	TRAVEL GEAR	ACTIVE HAND	AVATAR HAIR	GRIEFER FEAR
PearlescentMoon	Summoning Phantoms	Riding a Skeletal Horse	Holding tool in right hand	Glowing redstone dust hair	Lapis lazuli block block
BadBoyHalo	Throwing Splash Potions	Drinking Swiftness Potion	Holding tool in right hand	Glowing redstone dust hair	Water bucket splash
InTheLittleWood	Spawning Charged Creepers	Riding a Skeletal Horse	Holding tool in left hand	Glowing redstone dust hair	Ocelot meowing sound
GamingWithJen	Throwing Splash Potions	Using an Elytra	Holding tool in right hand	Dark obsidian black hair	Water bucket splash
ZombieCleo	Throwing Splash Potions	Riding a Skeletal Horse	Holding tool in right hand	Dark obsidian black hair	Water bucket splash
PopularMMOs	Command Block Hacking	Riding a Skeletal Horse	Holding tool in right hand	Dark obsidian black hair	Ocelot meowing sound
Aphmau	Summoning Phantoms	Using an Elytra	Holding tool in left hand	Glowing redstone dust hair	Water bucket splash
LDShadowLady	Summoning Phantoms	Wielding a Fire Aspect Sword	Holding tool in right hand	Dark obsidian black hair	Water bucket splash
Quig	Throwing Splash Potions	Riding a Skeletal Horse	Holding tool in right hand	Glowing redstone dust hair	Water bucket splash
AntVenom	Throwing Splash Potions	Drinking Swiftness Potion	Holding tool in right hand	Bright green pixel hair	Lapis lazuli block block
Grian	Throwing Splash Potions	Drinking Swiftness Potion	Holding tool in left hand	Glowing redstone dust hair	Water bucket splash
Stampy	Summoning Phantoms	Drinking Swiftness Potion	Holding tool in right hand	Glowing redstone dust hair	Lapis lazuli block block
Skeppy	Command Block Hacking	Drinking Swiftness Potion	Holding tool in right hand	Glowing redstone dust hair	Water bucket splash
DanTDM	Summoning Phantoms	Riding a Skeletal Horse	Holding tool in right hand	Bright green pixel hair	Lapis lazuli block block
Steve	Summoning Phantoms	Using an Elytra	Holding tool in right hand	Bright green pixel hair	Water bucket splash
PeteZahHutt	Throwing Splash Potions	Wearing Netherite Armor	Holding tool in left hand	Dark obsidian black hair	Water bucket splash
MumboJumbo	Throwing Splash Potions	Wearing Netherite Armor	Holding tool in right hand	Glowing redstone dust hair	Water bucket splash
Alex	Throwing Splash Potions	Riding a Skeletal Horse	Holding tool in left hand	Glowing redstone dust hair	Ocelot meowing sound
Shubble	Spawning Charged Creepers	Wearing Netherite Armor	Holding tool in left hand	Dark obsidian black hair	Water bucket splash
CaptainSparklez	Throwing Splash Potions	Drinking Swiftness Potion	Holding tool in right hand	Glowing redstone dust hair	Ocelot meowing sound
iBallisticSquid	Throwing Splash Potions	Wielding a Fire Aspect Sword	Holding tool in right hand	Glowing redstone dust hair	Water bucket splash

CLUE 1 Multiplication facts (1-12)

> We need to craft torches to light up the dark mine. If we make several stacks of wood with the same number of planks in each, we can multiply them to find the total wood.

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



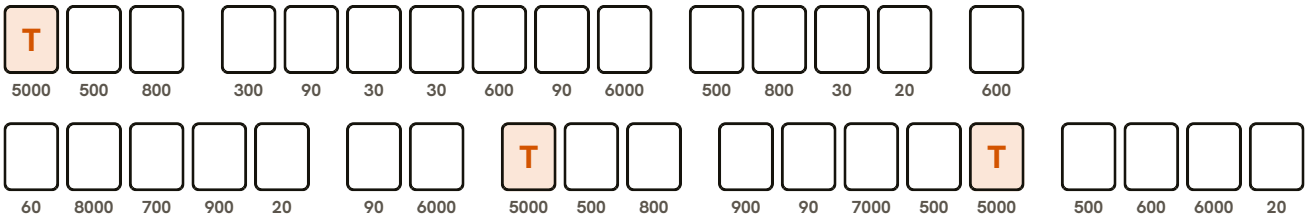
9 × 9 = ☐ → T	1 × 10 = ☐ → E	7 × 3 = ☐ → O	3 × 9 = ☐ → I
11 × 1 = ☐ → G	2 × 4 = ☐ → S	4 × 7 = ☐ → H	2 × 8 = ☐ → K
4 × 8 = ☐ → D	3 × 10 = ☐ → R	11 × 11 = ☐ → A	
8 × 11 = ☐ → F	12 × 12 = ☐ → N	3 × 4 = ☐ → L	

Scratch space:

CLUE 2 Rounding

> The server radar shows a glitchy coordinates screen. The numbers are flickering too fast, so we have to round them to the nearest ten to pinpoint the target.

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



Round 5,076 to the nearest thousand ☐ → T

Round 63 to the nearest ten ☐ → S

Round 293 to the nearest hundred ☐ → V

Round 20 to the nearest ten ☐ → D

Round 706 to the nearest hundred ☐ → O

Round 514 to the nearest hundred ☐ → H

Round 596 to the nearest hundred ☐ → A

Round 34 to the nearest ten ☐ → L

Round 6,246 to the nearest thousand ☐ → N

Round 7,924 to the nearest thousand ☐ → W

Round 939 to the nearest hundred ☐ → R

Round 751 to the nearest hundred ☐ → E

Round 87 to the nearest ten ☐ → I

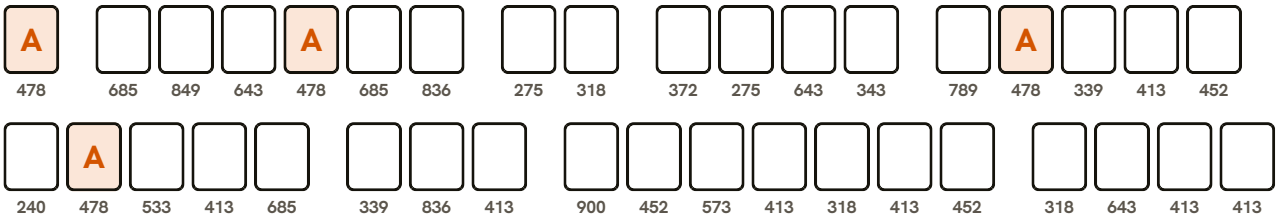
Round 6,878 to the nearest thousand ☐ → G

Scratch space:

CLUE 3 Addition

> Let us check our inventory chests. If we add up all the iron ingots and gold nuggets we found, we will know our total crafting power.

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



181 + 297 = ☐ → A

265 + 187 = ☐ → R

488 + 301 = ☐ → W

282 + 251 = ☐ → K

141 + 272 = ☐ → E

137 + 138 = ☐ → O

446 + 403 = ☐ → P

149 + 91 = ☐ → M

114 + 204 = ☐ → F

340 + 560 = ☐ → G

190 + 383 = ☐ → I

331 + 312 = ☐ → L

130 + 242 = ☐ → C

489 + 347 = ☐ → H

116 + 227 = ☐ → D

378 + 307 = ☐ → S

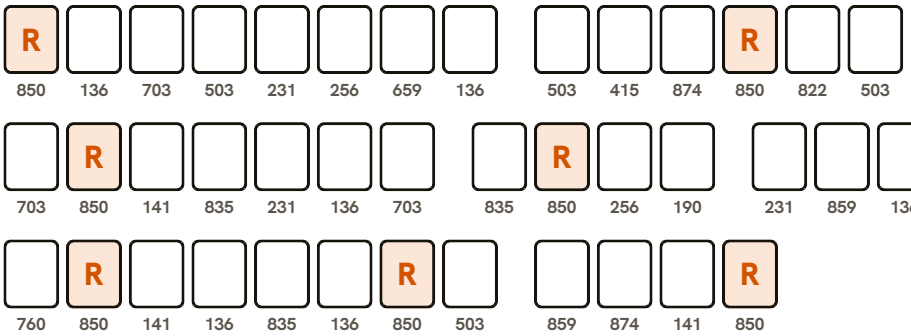
111 + 228 = ☐ → T

Scratch space:

CLUE 4 Subtraction

> A creeper blew up part of our stone wall! We must subtract the broken blocks from our original total to see how many bricks we need to rebuild.

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



1029 - 179 = ☐ → R	883 - 9 = ☐ → A	368 - 137 = ☐ → T
569 - 66 = ☐ → S	1059 - 299 = ☐ → G	1180 - 321 = ☐ → H
345 - 209 = ☐ → E	741 - 326 = ☐ → P	820 - 161 = ☐ → N
501 - 360 = ☐ → I	757 - 54 = ☐ → D	626 - 370 = ☐ → O
1118 - 296 = ☐ → K	1201 - 366 = ☐ → F	422 - 232 = ☐ → M

Scratch space:

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

> We found a stash of sweet berries in a jungle temple. If we divide them equally among our tamed wolves, we can see how many berries each wolf gets.

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:

70 ÷ 7 = ☐ | 50 ÷ 10 = ☐ | 7 ÷ 1 = ☐ | 15 ÷ 5 = ☐ | 48 ÷ 8 = ☐

36 ÷ 3 = ☐ | 9 ÷ 9 = ☐ | 4 ÷ 1 = ☐ | 72 ÷ 8 = ☐ | 6 ÷ 3 = ☐

33 ÷ 3 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain summons swooping phantoms, then glides away on a dark elytra.
2. The villain lays secret tnt traps, then swings a glowing fire aspect sword.
3. The villain hacks the command block, then glides away on a dark elytra.
4. The villain spawns a charged creeper, then drinks a quick swiftness potion.
5. The villain throws bad splash potions, then drinks a quick swiftness potion.
6. The villain spawns a charged creeper, then glides away on a dark elytra.
7. The villain throws bad splash potions, then runs off in heavy netherite armor.
8. The villain throws bad splash potions, then swings a glowing fire aspect sword.
9. The villain summons swooping phantoms, then drinks a quick swiftness potion.
10. The villain hacks the command block, then drinks a quick swiftness potion.
11. The villain throws bad splash potions, then glides away on a dark elytra.
12. The villain throws bad splash potions, then rides off on a bony skeletal horse.

TEACHER / PARENT

Answer Key

The Mystery of the Broken Beacon

Culprit: iBallisticSquid

Throwing Splash Potions · Wielding a Fire Aspect Sword · Holding tool in right hand · Glowing redstone dust hair · Water bucket splash

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE GRIEFER IS NOT RIDING A SKELETAL HORSE"

9 × 9 = 81 (T) · 1 × 10 = 10 (E) · 7 × 3 = 21 (O) · 3 × 9 = 27 (I) · 11 × 1 = 11 (G) · 2 × 4 = 8 (S) · 4 × 7 = 28 (H) · 2 × 8 = 16 (K) · 4 × 8 = 32 (D) · 3 × 10 = 30 (R) · 11 × 11 = 121 (A) · 8 × 11 = 88 (F) · 12 × 12 = 144 (N) · 3 × 4 = 12 (L)

Clue 2 (Rounding): "THE VILLAIN HELD A SWORD IN THE RIGHT HAND"

Round 5,076 to the nearest thousand = 5000 (T) · Round 63 to the nearest ten = 60 (S) · Round 293 to the nearest hundred = 300 (V) · Round 20 to the nearest ten = 20 (D) · Round 706 to the nearest hundred = 700 (O) · Round 514 to the nearest hundred = 500 (H) · Round 596 to the nearest hundred = 600 (A) · Round 34 to the nearest ten = 30 (L) · Round 6,246 to the nearest thousand = 6000 (N) · Round 7,924 to the nearest thousand = 8000 (W) · Round 939 to the nearest hundred = 900 (R) · Round 751 to the nearest hundred = 800 (E) · Round 87 to the nearest ten = 90 (I) · Round 6,878 to the nearest thousand = 7000 (G)

Clue 3 (Addition): "A SPLASH OF COLD WATER MAKES THE GRIEFER FLEE"

181 + 297 = 478 (A) · 265 + 187 = 452 (R) · 488 + 301 = 789 (W) · 282 + 251 = 533 (K) · 141 + 272 = 413 (E) · 137 + 138 = 275 (O) · 446 + 403 = 849 (P) · 149 + 91 = 240 (M) · 114 + 204 = 318 (F) · 340 + 560 = 900 (G) · 190 + 383 = 573 (I) · 331 + 312 = 643 (L) · 130 + 242 = 372 (C) · 489 + 347 = 836 (H) · 116 + 227 = 343 (D) · 378 + 307 = 685 (S) · 111 + 228 = 339 (T)

Clue 4 (Subtraction): "REDSTONE SPARKS DRIFTED FROM THE GRIEFERS HAIR"

1029 - 179 = 850 (R) · 883 - 9 = 874 (A) · 368 - 137 = 231 (T) · 569 - 66 = 503 (S) · 1059 - 299 = 760 (G) · 1180 - 321 = 859 (H) · 345 - 209 = 136 (E) · 741 - 326 = 415 (P) · 820 - 161 = 659 (N) · 501 - 360 = 141 (I) · 757 - 54 = 703 (D) · 626 - 370 = 256 (O) · 1118 - 296 = 822 (K) · 1201 - 366 = 835 (F) · 422 - 232 = 190 (M)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → iBallisticSquid

70 ÷ 7 = 10 · 50 ÷ 10 = 5 · 7 ÷ 1 = 7 · 15 ÷ 5 = 3 · 48 ÷ 8 = 6 · 36 ÷ 3 = 12 · 9 ÷ 9 = 1 · 4 ÷ 1 = 4 · 72 ÷ 8 = 9 · 6 ÷ 3 = 2 · 33 ÷ 3 = 11