



The Mystery of the Griefed Beacon

Grade 4 math · Addition, Subtraction, Multiplication, Rounding, Division · Reading level grades 5-6

Detective: _____ Date: _____

The community spawn castle has been griefed! The legendary Beacon of Haste is gone, leaving a trail of broken blocks and rogue redstone dust. The Server Admin needs your help to track down the suspect before they ruin the entire world spawn.

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	SERVER SKILL	HELD ITEM	SHIELD PLACEMENT	HEAD WEAR	DEFENSIVE FLAW
Grian	Beast Taming	Fire Aspect Sword	Right Hand Shield	Diamond Crown	Llama Spit
Etho	Netherite Mining	Infinity Bow	Left Hand Shield	Golden Helmet	Llama Spit
Steve	Potion Brewing	Fire Aspect Sword	Left Hand Shield	Creeper Hoodie	Llama Spit
DanTDM	Netherite Mining	Fire Aspect Sword	Right Hand Shield	Diamond Crown	Splash Water
Iskall	Netherite Mining	Ender Pearls	Left Hand Shield	Golden Helmet	Milk Bucket
Mumbo	Elytra Flying	Infinity Bow	Right Hand Shield	Golden Helmet	Llama Spit
Beef	Elytra Flying	Ender Pearls	Right Hand Shield	Creeper Hoodie	Splash Water
Skeppy	Beast Taming	Riptide Trident	Left Hand Shield	Golden Helmet	Milk Bucket
Docm	Beast Taming	Fire Aspect Sword	Right Hand Shield	Creeper Hoodie	Llama Spit
Philza	Beast Taming	Fire Aspect Sword	Right Hand Shield	Creeper Hoodie	Splash Water
Sapnap	Elytra Flying	Ender Pearls	Left Hand Shield	Golden Helmet	Llama Spit
Dreamer	Redstone Engineering	Riptide Trident	Left Hand Shield	Diamond Crown	Llama Spit
Sparklez	Beast Taming	Fire Aspect Sword	Left Hand Shield	Golden Helmet	Milk Bucket
TechnoFan	Netherite Mining	Totem of Undying	Right Hand Shield	Diamond Crown	Llama Spit
Puffy	Elytra Flying	Totem of Undying	Left Hand Shield	Golden Helmet	Llama Spit
George	Beast Taming	Totem of Undying	Left Hand Shield	Golden Helmet	Milk Bucket
Ranboo	Beast Taming	Riptide Trident	Left Hand Shield	Golden Helmet	Llama Spit
Alex	Beast Taming	Fire Aspect Sword	Right Hand Shield	Creeper Hoodie	Milk Bucket
BadBoy	Redstone Engineering	Riptide Trident	Right Hand Shield	Creeper Hoodie	Milk Bucket
Tommy	Netherite Mining	Riptide Trident	Right Hand Shield	Golden Helmet	Splash Water
Purpled	Beast Taming	Infinity Bow	Left Hand Shield	Golden Helmet	Llama Spit

CLUE 1 Addition

The server admins started counting the broken blocks around the spawn castle. We tally up the ruined obsidian and deepslate blocks to find our first clue.

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




















6916 9088 3895 4837 2868 5380 3895 7862 3895 2868 4138 3147 3895 7559 3630 3147 6916



















2498 7559 3895 3895 3630 4138 3895 2868 3175 3895 2258 2868 7088 7559

$$4228 + 2688 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$4234 + 3325 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1401 + 1097 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1200 + 1668 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2741 + 5121 = \boxed{} \rightarrow \boxed{\text{F}}$$

$1832 + 2063 = \boxed{} \rightarrow \mathbf{E}$

$2944 + 1893 = \boxed{} \rightarrow \mathbf{G}$

$$1137 + 1121 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$1898 + 1732 = \boxed{} \rightarrow \boxed{\text{N}}$$

$977 + 2198 = \boxed{} \rightarrow \boxed{\text{P}}$

$$3879 + 3209 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$1853 + 1294 = \boxed{} \rightarrow \boxed{\mathbf{0}}$$

$2755 + 1383 = \boxed{} \rightarrow \boxed{\text{D}}$

$$2368 + 3012 = \boxed{} \rightarrow \boxed{}$$

$$4940 + 4148 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 2

Subtraction

Next, we checked the community chest. Someone stole most of the golden carrots! Subtracting the remaining food from our starting stock points us to the culprit's trail.

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

T								T									
3331	8191	7009	7993	8191	7009	8386	2796	3331	8191	7009	6056	8191	3381	7009	8386	2796	3381 8281

T								T				
3331	8191	7009	3381	1400	8386	7009	2097	3331	8191	5187	8281	2796

$$6992 - 3661 = \boxed{} \rightarrow \boxed{T}$$

$$5637 - 2841 = \boxed{} \rightarrow \boxed{D}$$

$$7486 - 477 = \boxed{} \rightarrow \boxed{E}$$

$$12240 - 4247 = \boxed{} \rightarrow \boxed{Y}$$

$$12834 - 4448 = \boxed{} \rightarrow \boxed{L}$$

$$6231 - 175 = \boxed{} \rightarrow \boxed{S}$$

$$11396 - 3205 = \boxed{} \rightarrow \boxed{H}$$

$$7186 - 1999 = \boxed{} \rightarrow \boxed{A}$$

$$3131 - 1731 = \boxed{} \rightarrow \boxed{R}$$

$$3718 - 1621 = \boxed{} \rightarrow \boxed{F}$$

$$10934 - 2653 = \boxed{} \rightarrow \boxed{N}$$

$$8293 - 4912 = \boxed{} \rightarrow \boxed{I}$$

Scratch space:

CLUE 3

Multiplication facts (1-12)

We discovered a hidden outpost with columns of double chests. By multiplying the rows of chests by the slots inside each one, we unlocked the secret safe.

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

T											T							
50	4	16	7	64	16	42	16	72	44	35	50	10	108	6	7		45	
			T			T												
44	42	10	50	16	32	50	35	36	16	24	24	45	100	45				

$5 \times 10 = \square \rightarrow \boxed{\text{T}}$

$8 \times 4 = \square \rightarrow \boxed{\text{C}}$

$9 \times 12 = \square \rightarrow \boxed{\text{N}}$

$7 \times 6 = \square \rightarrow \boxed{\text{R}}$

$12 \times 2 = \square \rightarrow \boxed{\text{L}}$

$2 \times 3 = \square \rightarrow \boxed{\text{B}}$

$8 \times 8 = \square \rightarrow \boxed{\text{W}}$

$4 \times 4 = \square \rightarrow \boxed{\text{E}}$

$1 \times 7 = \square \rightarrow \boxed{\text{Y}}$

$12 \times 6 = \square \rightarrow \boxed{\text{S}}$

$9 \times 5 = \square \rightarrow \boxed{\text{A}}$

$10 \times 10 = \square \rightarrow \boxed{\text{M}}$

$4 \times 1 = \square \rightarrow \boxed{\text{H}}$

$5 \times 7 = \square \rightarrow \boxed{\text{I}}$

$4 \times 11 = \square \rightarrow \boxed{\text{P}}$

$4 \times 9 = \square \rightarrow \boxed{\text{V}}$

$2 \times 5 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4 Rounding

The server's tracking compass picked up a faint signal. The coordinate readout only shows rounded numbers, but rounding it to the nearest ten reveals the suspect's gear.

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

T																	
5000	230	3700	2300	1100	7000	3700	50	3700	1100	300	1100	2900	4300	4300	3700	300	1700

																T
700	230	7000	70	290	2300	2900	1300	300	3700	70	230	3700	1300	900	3700	5000

Round 5,256 to the nearest thousand →

T

Round 2,331 to the nearest hundred →

G

Round 3,654 to the nearest hundred →

E

Round 234 to the nearest ten →

H

Round 1,266 to the nearest hundred →

L

Round 1,126 to the nearest hundred →

R

Round 2,887 to the nearest hundred →

O

Round 930 to the nearest hundred →

M

Round 1,731 to the nearest hundred →

A

Round 74 to the nearest ten →

N

Round 7,428 to the nearest thousand →

I

Round 292 to the nearest ten →

Y

Round 4,325 to the nearest hundred →

P

Round 46 to the nearest ten →

F

Round 265 to the nearest hundred →

D

Round 681 to the nearest hundred →

S

Scratch space:

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

Finally, we found a pile of stolen diamonds in a hopper. Dividing the loot equally among the active server guards reveals the last clue about the thief.

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:

$4 \div 2 = \boxed{}$

$3 \div 3 = \boxed{}$

$49 \div 7 = \boxed{}$

$3 \div 1 = \boxed{}$

$70 \div 7 = \boxed{}$

$12 \div 3 = \boxed{}$

$84 \div 7 = \boxed{}$

$60 \div 12 = \boxed{}$

$56 \div 7 = \boxed{}$

$132 \div 12 = \boxed{}$

$36 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain soars high with rockets, then saves themselves with a totem.
2. The villain mines deep obsidian walls, then shoots endless arrows from a bow.
3. The villain rides a roaring ravager, then teleports away with an ender pearl.
4. The villain activates a piston trap, then teleports away with an ender pearl.
5. The villain soars high with rockets, then shoots endless arrows from a bow.
6. The villain rides a roaring ravager, then saves themselves with a totem.
7. The villain rides a roaring ravager, then escapes using a riptide trident.
8. The villain mines deep obsidian walls, then saves themselves with a totem.
9. The villain rides a roaring ravager, then shoots endless arrows from a bow.
10. The villain mines deep obsidian walls, then ignites the ground with a fire sword.
11. The villain soars high with rockets, then escapes using a riptide trident.
12. The villain activates a piston trap, then saves themselves with a totem.

Answer Key

The Mystery of the Griefed Beacon

Culprit: Purpled

Beast Taming · Infinity Bow · Left Hand Shield · Golden Helmet · Llama Spit

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE GRIEFER DOES NOT USE ENDER PEARLS"

$4228 + 2688 = 6916$ (T) · $4234 + 3325 = 7559$ (S) · $1401 + 1097 = 2498$ (U) · $1200 + 1668 = 2868$ (R) · $2741 + 5121 = 7862$ (F) · $1832 + 2063 = 3895$ (E) · $2944 + 1893 = 4837$ (G) · $1137 + 1121 = 2258$ (A) · $1898 + 1732 = 3630$ (N) · $977 + 2198 = 3175$ (P) · $3879 + 3209 = 7088$ (L) · $1853 + 1294 = 3147$ (O) · $2755 + 1383 = 4138$ (D) · $2368 + 3012 = 5380$ (I) · $4940 + 4148 = 9088$ (H)

Clue 2 (Subtraction): "THEY HELD THE SHIELD IN THEIR LEFT HAND"

$6992 - 3661 = 3331$ (T) · $5637 - 2841 = 2796$ (D) · $7486 - 477 = 7009$ (E) · $12240 - 4247 = 7993$ (Y) · $12834 - 4448 = 8386$ (L) · $6231 - 175 = 6056$ (S) · $11396 - 3205 = 8191$ (H) · $7186 - 1999 = 5187$ (A) · $3131 - 1731 = 1400$ (R) · $3718 - 1621 = 2097$ (F) · $10934 - 2653 = 8281$ (N) · $8293 - 4912 = 3381$ (I)

Clue 3 (Multiplication facts (1-12)): "THEY WERE SPIT ON BY A PROTECTIVE LLAMA"

$5 \times 10 = 50$ (T) · $8 \times 4 = 32$ (C) · $9 \times 12 = 108$ (N) · $7 \times 6 = 42$ (R) · $12 \times 2 = 24$ (L) · $2 \times 3 = 6$ (B) · $8 \times 8 = 64$ (W) · $4 \times 4 = 16$ (E) · $1 \times 7 = 7$ (Y) · $12 \times 6 = 72$ (S) · $9 \times 5 = 45$ (A) · $10 \times 10 = 100$ (M) · $4 \times 1 = 4$ (H) · $5 \times 7 = 35$ (I) · $4 \times 11 = 44$ (P) · $4 \times 9 = 36$ (V) · $2 \times 5 = 10$ (O)

Clue 4 (Rounding): "THE GRIEFER DROPPED A SHINY GOLDEN HELMET"

Round 5,256 to the nearest thousand = 5000 (T) · Round 2,331 to the nearest hundred = 2300 (G) · Round 3,654 to the nearest hundred = 3700 (E) · Round 234 to the nearest ten = 230 (H) · Round 1,266 to the nearest hundred = 1300 (L) · Round 1,126 to the nearest hundred = 1100 (R) · Round 2,887 to the nearest hundred = 2900 (O) · Round 930 to the nearest hundred = 900 (M) · Round 1,731 to the nearest hundred = 1700 (A) · Round 74 to the nearest ten = 70 (N) · Round 7,428 to the nearest thousand = 7000 (I) · Round 292 to the nearest ten = 290 (Y) · Round 4,325 to the nearest hundred = 4300 (P) · Round 46 to the nearest ten = 50 (F) · Round 265 to the nearest hundred = 300 (D) · Round 681 to the nearest hundred = 700 (S)

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

$4 \div 2 = 2$ · $3 \div 3 = 1$ · $49 \div 7 = 7$ · $3 \div 1 = 3$ · $70 \div 7 = 10$ · $12 \div 3 = 4$ · $84 \div 7 = 12$ · $60 \div 12 = 5$ · $56 \div 7 = 8$ · $132 \div 12 = 11$ · $36 \div 6 = 6$