



The Spawn Castle Griefing

Grade 6 math · Place value, Subtraction, Percentages, Exponents, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky griever has broken into the Grand Spawn Castle! They replaced the quartz blocks with smelly mud blocks and ran off. The Server Admin needs your help to decode the system logs and find the culprit before the build battle starts.

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 Phantom is _____

Possible suspects

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

NAME	MAIN CLASS	OFF-HAND ITEM	ACTIVE STATUS EFFECT	HELMET TYPE	IN-GAME WEAKNESS
Sapnap	Speedrunner	Totem of Undying	Particles Drifting Right	Golden Helmet	Splashed Water
EthosLab	Speedrunner	Firework Rocket	Particles Drifting Left	Golden Helmet	Lava Buckets
George	Mob Wrangler	Ender Pearl	Particles Drifting Left	Golden Helmet	Wolf Taming
ZombieCleo	Redstone Engineer	Ender Pearl	Particles Drifting Left	Golden Helmet	Splashed Water
Alex	Redstone Engineer	Firework Rocket	Particles Drifting Left	Golden Helmet	Wolf Taming
Mumbo	Redstone Engineer	Splash Potion	Particles Drifting Left	Golden Helmet	Splashed Water
FalseSymmetry	Pro Builder	Ender Pearl	Particles Drifting Left	Diamond Helmet	Lava Buckets
Grian	Redstone Engineer	Ender Pearl	Particles Drifting Left	Iron Helmet	Wolf Taming
GeminiTay	Pro Builder	Firework Rocket	Particles Drifting Left	Diamond Helmet	Splashed Water
CaptainSparklez	Redstone Engineer	Golden Apple	Particles Drifting Left	Golden Helmet	Splashed Water
DanTDM	Deep Miner	Firework Rocket	Particles Drifting Left	Diamond Helmet	Splashed Water
Joel	Speedrunner	Golden Apple	Particles Drifting Left	Iron Helmet	Wolf Taming
Dream	Deep Miner	Golden Apple	Particles Drifting Right	Diamond Helmet	Splashed Water
Sparklez	Deep Miner	Firework Rocket	Particles Drifting Left	Golden Helmet	Splashed Water
TangoTek	Deep Miner	Ender Pearl	Particles Drifting Left	Diamond Helmet	Lava Buckets
BdoubleO100	Speedrunner	Golden Apple	Particles Drifting Left	Diamond Helmet	Lava Buckets
TommyInnit	Speedrunner	Splash Potion	Particles Drifting Right	Iron Helmet	Lava Buckets
GoodTimesWithScar	Pro Builder	Totem of Undying	Particles Drifting Right	Golden Helmet	Lava Buckets
PearlescentMoon	Mob Wrangler	Firework Rocket	Particles Drifting Left	Golden Helmet	Lava Buckets
Stampy	Pro Builder	Golden Apple	Particles Drifting Left	Diamond Helmet	Splashed Water
Ranboo	Pro Builder	Firework Rocket	Particles Drifting Left	Golden Helmet	Splashed Water

CLUE 1 Place value

The admin checks the backup files on a coordinate screen. Reading the digit values of the server seed reveals the first hint.

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

T																T
6000	60	500	600	900	100	100	1000	900	800	10	3000	500	400	800	3000	6000
												T				
60	3000	100	10	1000	400	20	100	1000	400	60	20	3000	6000	900	3000	800

What is the value of the 6 in 586,792? → **T**

What is the value of the 2 in 616,126? → **P**

What is the value of the 3 in 13,874? → **O**

What is the value of the 1 in 676,130? → **L**

What is the value of the 4 in 99,461? → **S**

What is the value of the 1 in 79,314? → **D**

What is the value of the 6 in 47,161? → **H**

What is the value of the 1 in 651,920? → **A**

What is the value of the 9 in 78,917? → **I**

What is the value of the 8 in 315,893? → **N**

What is the value of the 5 in 40,523? → **E**

What is the value of the 6 in 171,678? → **V**

Scratch space:

CLUE 2 Subtraction

The admin opens the storage chest to count the obsidian. Subtracting the stolen blocks from the total pile unlocks the next clue.

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

T					T														
3194	7488	3032	4662	4628	3194	8822	3032	6009	6009	6009	2089	4662	3065	1194	7785	4662	4628	8822	3065
			T									T							
2956	2089	7621	3194	4628	4349	1194	3032	6009	2036	7621	4628	5619	3194	1194	3032	5619	3194		

$$6876 - 3682 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$7782 - 4826 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$10180 - 2559 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1740 - 546 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$9879 - 1057 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$4561 - 2525 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$8897 - 4548 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$11905 - 4120 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$7679 - 2060 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$7902 - 4870 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$4780 - 2691 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$8593 - 1105 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$8716 - 2707 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$7665 - 3003 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$7143 - 4078 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$8202 - 3574 = \boxed{} \rightarrow \boxed{\text{I}}$$

Scratch space:

CLUE 3 Percentages

A damaged diamond shovel lies on the path. Calculating the remaining percentage of its durability bar uncovers a key detail.

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

T																	
4	16	27	37	18	6	27	1	27	18	18	32	44	32	28	32	10	
														T			
1	18	38	12	40	2	8	32	40	16	27	30	28	32	4	27	18	

50% of 8 = → T	20% of 90 = → R	25% of 152 = → O
50% of 24 = → M	5% of 160 = → L	5% of 740 = → G
25% of 8 = → P	25% of 24 = → I	20% of 50 = → Y
5% of 560 = → W	75% of 40 = → D	50% of 64 = → A
25% of 108 = → E	50% of 88 = → N	5% of 800 = → S
20% of 5 = → F	10% of 160 = → H	

Scratch space:

CLUE 4 Exponents

The griever made a stack of blocks double in size over and over. Finding the exponential growth of the blocks gives us the fourth clue.

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

A																	
8	4	400	324	121	128	289	216	144	343	81	121	400	81	144	100	81	256

			A			A									
4	256	27	8	169	361	8	4	343	27	216	169	169	81	343	

$2^3 = \square \rightarrow$ A	$18^2 = \square \rightarrow$ I	$16^2 = \square \rightarrow$ T	$19^2 = \square \rightarrow$ W
$12^2 = \square \rightarrow$ L	$13^2 = \square \rightarrow$ P	$6^3 = \square \rightarrow$ O	$2^7 = \square \rightarrow$ Y
$3^4 = \square \rightarrow$ E	$10^2 = \square \rightarrow$ M	$2^2 = \square \rightarrow$ S	$3^3 = \square \rightarrow$ R
$17^2 = \square \rightarrow$ G	$20^2 = \square \rightarrow$ H	$11^2 = \square \rightarrow$ N	$7^3 = \square \rightarrow$ D

Scratch space:

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

The admin shares their baked potatoes with the village witnesses. Dividing the food evenly gets them to speak about the final clue.

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:

$18 \div 2 = \boxed{}$

$30 \div 6 = \boxed{}$

$110 \div 11 = \boxed{}$

$80 \div 10 = \boxed{}$

$63 \div 9 = \boxed{}$

$2 \div 1 = \boxed{}$

$120 \div 10 = \boxed{}$

$132 \div 12 = \boxed{}$

$12 \div 2 = \boxed{}$

$40 \div 10 = \boxed{}$

$8 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain breaks the quartz pillars, then drinks an invisibility potion.
2. The villain breaks the quartz pillars, then logs off the server completely.
3. The villain hacks into the redstone wiring, then drinks an invisibility potion.
4. The villain digs a massive hole under the spawn, then escapes into a nether portal.
5. The villain hacks into the redstone wiring, then teleports away using an ender pearl.
6. The villain digs a massive hole under the spawn, then drinks an invisibility potion.
7. The villain breaks the quartz pillars, then glides off with elytra wings.
8. The villain places rows of smelly mud blocks, then escapes into a nether portal.
9. The villain digs a massive hole under the spawn, then logs off the server completely.
10. The villain places rows of smelly mud blocks, then logs off the server completely.
11. The villain breaks the quartz pillars, then teleports away using an ender pearl.
12. The villain spawns a swarm of angry creepers, then glides off with elytra wings.

Answer Key

The Spawn Castle Griefing

Culprit: CaptainSparklez

Redstone Engineer · Golden Apple · Particles Drifting Left · Golden Helmet · Splashed Water

Trail: Start 21 → Clue 1 19 → Clue 2 16 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT HOLD A SPLASH POTION"

What is the value of the 6 in 586,792? = 6000 (T) · What is the value of the 2 in 616,126? = 20 (P) · What is the value of the 3 in 13,874? = 3000 (O) · What is the value of the 1 in 676,130? = 100 (L) · What is the value of the 4 in 99,461? = 400 (S) · What is the value of the 1 in 79,314? = 10 (D) · What is the value of the 6 in 47,161? = 60 (H) · What is the value of the 1 in 651,920? = 1000 (A) · What is the value of the 9 in 78,917? = 900 (I) · What is the value of the 8 in 315,893? = 800 (N) · What is the value of the 5 in 40,523? = 500 (E) · What is the value of the 6 in 171,678? = 600 (V)

Clue 2 (Subtraction): "THE WITNESS SAW GLOWING PARTICLES DRIFT LEFT"

6876 - 3682 = 3194 (T) · 7782 - 4826 = 2956 (P) · 10180 - 2559 = 7621 (R) · 1740 - 546 = 1194 (L) · 9879 - 1057 = 8822 (N) · 4561 - 2525 = 2036 (D) · 8897 - 4548 = 4349 (C) · 11905 - 4120 = 7785 (O) · 7679 - 2060 = 5619 (F) · 7902 - 4870 = 3032 (E) · 4780 - 2691 = 2089 (A) · 8593 - 1105 = 7488 (H) · 8716 - 2707 = 6009 (S) · 7665 - 3003 = 4662 (W) · 7143 - 4078 = 3065 (G) · 8202 - 3574 = 4628 (I)

Clue 3 (Percentages): "THE GRIEFER RAN AWAY FROM SPLASHED WATER"

50% of 8 = 4 (T) · 20% of 90 = 18 (R) · 25% of 152 = 38 (O) · 50% of 24 = 12 (M) · 5% of 160 = 8 (L) · 5% of 740 = 37 (G) · 25% of 8 = 2 (P) · 25% of 24 = 6 (I) · 20% of 50 = 10 (Y) · 5% of 560 = 28 (W) · 75% of 40 = 30 (D) · 50% of 64 = 32 (A) · 25% of 108 = 27 (E) · 50% of 88 = 44 (N) · 5% of 800 = 40 (S) · 20% of 5 = 1 (F) · 10% of 160 = 16 (H)

Clue 4 (Exponents): "A SHINY GOLDEN HELMET STRAP WAS DROPPED"

$2^3 = 8$ (A) · $18^2 = 324$ (I) · $16^2 = 256$ (T) · $19^2 = 361$ (W) · $12^2 = 144$ (L) · $13^2 = 169$ (P) · $6^3 = 216$ (O) · $2^7 = 128$ (Y) · $3^4 = 81$ (E) · $10^2 = 100$ (M) · $2^2 = 4$ (S) · $3^3 = 27$ (R) · $17^2 = 289$ (G) · $20^2 = 400$ (H) · $11^2 = 121$ (N) · $7^3 = 343$ (D)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → CaptainSparklez

$18 \div 2 = 9$ · $30 \div 6 = 5$ · $110 \div 11 = 10$ · $80 \div 10 = 8$ · $63 \div 9 = 7$ · $2 \div 1 = 2$ · $120 \div 10 = 12$ · $132 \div 12 = 11$ · $12 \div 2 = 6$ · $40 \div 10 = 4$ · $8 \div 8 = 1$