



The Glitch in the Badlands

Grade 5 math · Addition, Subtraction, Multiplication, Fractions of a number · Reading level grades 3-4

Detective: _____ **Date:** _____

Oh no! Someone hacked into the main server room and stole the Golden Apple from the Chief Redstone Engineer. The world is lagging and starting to glitch out! We must track down the Glitch King before the server restarts and wipes our save file forever!

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 Glitch King is _____

Possible suspects

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

NAME	MAIN WEAPON	SUMMON SKILL	MAP HOLDING	HELMET TYPE	COUNTER ITEM
Wilbur	Splash Potion	TNT Trap	Left handed	Iron Helmet	Milk Bucket
Tubbo	Elytra Wings	Creeper Friend	Left handed	Leather Cap	Milk Bucket
Jerome	Splash Potion	Creeper Friend	Right handed	Leather Cap	Water Bucket
Ranboo	Ender Pearl	Golem Maker	Left handed	Leather Cap	Water Bucket
Steve	Elytra Wings	Golem Maker	Left handed	Leather Cap	Milk Bucket
Stampy	Splash Potion	Obsidian Shield	Right handed	Leather Cap	Water Bucket
George	Ender Pearl	Obsidian Shield	Right handed	Leather Cap	Water Bucket
Grian	Diamond Sword	Golem Maker	Right handed	Leather Cap	Milk Bucket
DanTDM	Diamond Sword	Wolf Tamer	Right handed	Gold Helmet	Milk Bucket
Mumbo	Diamond Sword	Wolf Tamer	Left handed	Leather Cap	Water Bucket
Dream	Diamond Sword	Obsidian Shield	Left handed	Iron Helmet	Milk Bucket
PopularMMOs	Splash Potion	Obsidian Shield	Left handed	Leather Cap	Milk Bucket
Tommy	Diamond Sword	TNT Trap	Right handed	Leather Cap	Water Bucket
AntVenom	Splash Potion	Obsidian Shield	Left handed	Gold Helmet	Lava Bucket
Preston	Ender Pearl	Wolf Tamer	Right handed	Iron Helmet	Water Bucket
Technoblade	Splash Potion	Golem Maker	Left handed	Gold Helmet	Lava Bucket
Unspeakable	Elytra Wings	Wolf Tamer	Right handed	Leather Cap	Water Bucket
Aphmau	Splash Potion	Golem Maker	Left handed	Iron Helmet	Lava Bucket
Skeppy	Redstone Launcher	Obsidian Shield	Right handed	Leather Cap	Lava Bucket
Alex	Redstone Launcher	Creeper Friend	Right handed	Leather Cap	Water Bucket
Sapnap	Elytra Wings	Wolf Tamer	Right handed	Leather Cap	Milk Bucket

CLUE 1 Addition

We found a chest full of crafting supplies. If we add the stacks of cobblestone together, we will unlock the first clue!

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

T																	
5524	7687	6239	7961	3354	3217	3217	8370	3354	5276	3354	3676	5276	9537	5524	8370		

7494	6586	6239	6239	9389	6239	6586	6104	6586	3354	6239	5276	9771					

2386 + 3138 = → T	1870 + 4234 = → F	1825 + 1392 = → L
4594 + 4795 = → P	5012 + 2675 = → H	2063 + 4176 = → E
2736 + 5225 = → V	1762 + 1592 = → I	2526 + 1150 = → S
4183 + 5588 = → D	2788 + 2488 = → N	3087 + 4407 = → C
2871 + 6666 = → O	2905 + 3681 = → R	3415 + 4955 = → A

Scratch space:

CLUE 2 Subtraction

The thief blew up a village wall! Let us subtract the ruined blocks from our starting total to see how many we have left.

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

T																	
3532	1027	7508	7388	3827	2611	2611	5591	3827	1356	5473	4620	3827	1356	6229	5473	5591	
							T		T							T	
5473	4620	7318	7828	5396	4620	3827	3532	1027	3532	1027	7508	7828	3827	6229	1027	3532	
1027	5591	1356	5396														

3548 - 16 = → T	7473 - 2000 = → S	7192 - 4581 = → L
9498 - 4102 = → D	7147 - 1556 = → A	7971 - 143 = → R
7649 - 141 = → E	5837 - 4810 = → H	5565 - 4209 = → N
7816 - 1587 = → G	6305 - 2478 = → I	6633 - 2013 = → W
11702 - 4384 = → O	8147 - 759 = → V	

Scratch space:

CLUE 3
Multiplication facts (1-12)

A strange redstone circuit has five rows of power lamps. If we multiply the rows to count the total lamps, a secret hatch opens!

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

T																	
21	64	5	7	18	80	80	81	18	9	110	63	9	70	81	42	81	11
						T								T			
36	110	28	56	42	81	21	5	110	66	63	16	96	5	21	70		

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

$10 \times 7 = \square \rightarrow \boxed{\text{S}}$

$8 \times 7 = \square \rightarrow \boxed{\text{M}}$

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

$1 \times 5 = \square \rightarrow \boxed{\text{E}}$

$10 \times 11 = \square \rightarrow \boxed{\text{R}}$

$6 \times 11 = \square \rightarrow \boxed{\text{B}}$

$9 \times 7 = \square \rightarrow \boxed{\text{U}}$

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

$7 \times 4 = \square \rightarrow \boxed{\text{O}}$

$1 \times 11 = \square \rightarrow \boxed{\text{Y}}$

$3 \times 6 = \square \rightarrow \boxed{\text{I}}$

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

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

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

$12 \times 3 = \square \rightarrow \boxed{\text{F}}$

$2 \times 8 = \square \rightarrow \boxed{\text{C}}$

$8 \times 12 = \square \rightarrow \boxed{\text{K}}$

$8 \times 10 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4
Fractions of a number

The suspect dropped a heavy stack of sixty-four diamonds. If we find what one quarter of the stack is, we get the next clue.

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

W									W									
37	7	3	36	11	4	20	21	24	36	37	4	33	7	19	9	8	7	24
6	25	24	19	23	6	19	9	9	8	7	6	25	7	4	7			

$4/8 \text{ of } 74 = \square \rightarrow \text{W}$

$1/3 \text{ of } 69 = \square \rightarrow \text{P}$

$3/4 \text{ of } 48 = \square \rightarrow \text{O}$

$8/10 \text{ of } 10 = \square \rightarrow \text{H}$

$1/6 \text{ of } 54 = \square \rightarrow \text{T}$

$3/5 \text{ of } 10 = \square \rightarrow \text{S}$

$1/8 \text{ of } 200 = \square \rightarrow \text{C}$

$3/6 \text{ of } 38 = \square \rightarrow \text{A}$

$1/6 \text{ of } 126 = \square \rightarrow \text{B}$

$1/5 \text{ of } 55 = \square \rightarrow \text{U}$

$2/4 \text{ of } 40 = \square \rightarrow \text{D}$

$6/10 \text{ of } 55 = \square \rightarrow \text{L}$

$2/6 \text{ of } 9 = \square \rightarrow \text{F}$

$1/3 \text{ of } 12 = \square \rightarrow \text{N}$

$2/6 \text{ of } 21 = \square \rightarrow \text{E}$

$1/8 \text{ of } 192 = \square \rightarrow \text{R}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

To power our tracker, we must use exactly three quarters of our eighty redstone torches. Let us calculate the correct amount.

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:

$1/10 \text{ of } 120 = \boxed{}$

$2/3 \text{ of } 15 = \boxed{}$

$2/10 \text{ of } 25 = \boxed{}$

$5/10 \text{ of } 22 = \boxed{}$

$1/6 \text{ of } 48 = \boxed{}$

$1/2 \text{ of } 14 = \boxed{}$

$2/3 \text{ of } 6 = \boxed{}$

$2/4 \text{ of } 2 = \boxed{}$

$1/4 \text{ of } 8 = \boxed{}$

$2/5 \text{ of } 15 = \boxed{}$

$6/10 \text{ of } 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain teleports with an ender pearl, then summons a wild wolf pack.
2. The villain slashes with a diamond sword, then summons a wild wolf pack.
3. The villain teleports with an ender pearl, then primes a hidden tnt trap.
4. The villain fires a redstone launcher, then primes a hidden tnt trap.
5. The villain teleports with an ender pearl, then builds a heavy obsidian shield.
6. The villain teleports with an ender pearl, then whispers to a green creeper.
7. The villain fires a redstone launcher, then summons a wild wolf pack.
8. The villain glides with elytra wings, then primes a hidden tnt trap.
9. The villain glides with elytra wings, then summons a wild wolf pack.
10. The villain slashes with a diamond sword, then primes a hidden tnt trap.
11. The villain fires a redstone launcher, then whispers to a green creeper.
12. The villain throws a splash potion, then builds a heavy obsidian shield.

Answer Key

The Glitch in the Badlands

Culprit: Unspeakable

Elytra Wings · Wolf Tamer · Right handed · Leather Cap · Water Bucket

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

Clue 1 (Addition): "THE VILLAIN IS NOT A CREEPER FRIEND"

$2386 + 3138 = 5524$ (T) · $1870 + 4234 = 6104$ (F) · $1825 + 1392 = 3217$ (L) · $4594 + 4795 = 9389$ (P) · $5012 + 2675 = 7687$ (H) · $2063 + 4176 = 6239$ (E) · $2736 + 5225 = 7961$ (V) · $1762 + 1592 = 3354$ (I) · $2526 + 1150 = 3676$ (S) · $4183 + 5588 = 9771$ (D) · $2788 + 2488 = 5276$ (N) · $3087 + 4407 = 7494$ (C) · $2871 + 6666 = 9537$ (O) · $2905 + 3681 = 6586$ (R) · $3415 + 4955 = 8370$ (A)

Clue 2 (Subtraction): "THE VILLAIN SWINGS A SWORD WITH THE RIGHT HAND"

$3548 - 16 = 3532$ (T) · $7473 - 2000 = 5473$ (S) · $7192 - 4581 = 2611$ (L) · $9498 - 4102 = 5396$ (D) · $7147 - 1556 = 5591$ (A) · $7971 - 143 = 7828$ (R) · $7649 - 141 = 7508$ (E) · $5837 - 4810 = 1027$ (H) · $5565 - 4209 = 1356$ (N) · $7816 - 1587 = 6229$ (G) · $6305 - 2478 = 3827$ (I) · $6633 - 2013 = 4620$ (W) · $11702 - 4384 = 7318$ (O) · $8147 - 759 = 7388$ (V)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN RUNS AWAY FROM WATER BUCKETS"

$7 \times 3 = 21$ (T) · $10 \times 7 = 70$ (S) · $8 \times 7 = 56$ (M) · $9 \times 9 = 81$ (A) · $1 \times 5 = 5$ (E) · $10 \times 11 = 110$ (R) · $6 \times 11 = 66$ (B) · $9 \times 7 = 63$ (U) · $8 \times 8 = 64$ (H) · $7 \times 4 = 28$ (O) · $1 \times 11 = 11$ (Y) · $3 \times 6 = 18$ (I) · $7 \times 1 = 7$ (V) · $6 \times 7 = 42$ (W) · $3 \times 3 = 9$ (N) · $12 \times 3 = 36$ (F) · $2 \times 8 = 16$ (C) · $8 \times 12 = 96$ (K) · $8 \times 10 = 80$ (L)

Clue 4 (Fractions of a number): "WE FOUND BROWN LEATHER SCRAPS AT THE SCENE"

$\frac{4}{8}$ of 74 = 37 (W) · $\frac{1}{3}$ of 69 = 23 (P) · $\frac{3}{4}$ of 48 = 36 (O) · $\frac{8}{10}$ of 10 = 8 (H) · $\frac{1}{6}$ of 54 = 9 (T) · $\frac{3}{5}$ of 10 = 6 (S) · $\frac{1}{8}$ of 200 = 25 (C) · $\frac{3}{6}$ of 38 = 19 (A) · $\frac{1}{6}$ of 126 = 21 (B) · $\frac{1}{5}$ of 55 = 11 (U) · $\frac{2}{4}$ of 40 = 20 (D) · $\frac{6}{10}$ of 55 = 33 (L) · $\frac{2}{6}$ of 9 = 3 (F) · $\frac{1}{3}$ of 12 = 4 (N) · $\frac{2}{6}$ of 21 = 7 (E) · $\frac{1}{8}$ of 192 = 24 (R)

Clue 5 (Fractions of a number): surviving statement is box 9 → Unspeakable

$\frac{1}{10}$ of 120 = 12 · $\frac{2}{3}$ of 15 = 10 · $\frac{2}{10}$ of 25 = 5 · $\frac{5}{10}$ of 22 = 11 · $\frac{1}{6}$ of 48 = 8 · $\frac{1}{2}$ of 14 = 7 · $\frac{2}{3}$ of 6 = 4 · $\frac{2}{4}$ of 2 = 1 · $\frac{1}{4}$ of 8 = 2 · $\frac{2}{5}$ of 15 = 6 · $\frac{6}{10}$ of 5 = 3