



The Blooket Server Glitch

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

Detective: _____ **Date:** _____

A mysterious hacker has hijacked the Blooket servers, locking everyone out of Gold Quest! The Lead Game Developer needs your help to trace the rogue Blook before they swipe all the tokens.

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 Blook is _____

Possible suspects

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

NAME	FAVORITE GAME MODE	EQUIPPED BLOOK	SCREEN ALIGNMENT	AVATAR OUTLINE COLOR	SYSTEM DEFEAT CODE
Frog	Cafe Mode	Astronaut Blook	Right Handed Controls	Hot Pink Aura	Freeze Spell
Tiger	Monster Brawl	Megalodon Blook	Right Handed Controls	Neon Blue Aura	Freeze Spell
Dragon	Gold Quest	Phantom King Blook	Right Handed Controls	Hot Pink Aura	Freeze Spell
Penguin	Gold Quest	Megalodon Blook	Right Handed Controls	Neon Blue Aura	Spam Click
Jester	Gold Quest	King Blook	Left Handed Controls	Hot Pink Aura	Power Shield
Crab	Monster Brawl	Astronaut Blook	Right Handed Controls	Hot Pink Aura	Spam Click
Pig	Cafe Mode	King Blook	Right Handed Controls	Hot Pink Aura	Power Shield
Jellyfish	Crypto Hack	Megalodon Blook	Left Handed Controls	Hot Pink Aura	Freeze Spell
Megalodon	Tower Defense	King Blook	Right Handed Controls	Neon Blue Aura	Spam Click
Cat	Crypto Hack	Megalodon Blook	Left Handed Controls	Bright Green Aura	Freeze Spell
Fox	Monster Brawl	Phantom King Blook	Right Handed Controls	Hot Pink Aura	Freeze Spell
TRex	Cafe Mode	Astronaut Blook	Left Handed Controls	Hot Pink Aura	Freeze Spell
Yeti	Gold Quest	Astronaut Blook	Right Handed Controls	Neon Blue Aura	Freeze Spell
Sheep	Monster Brawl	Rainbow Panda Blook	Right Handed Controls	Hot Pink Aura	Freeze Spell
Alien	Cafe Mode	King Blook	Right Handed Controls	Neon Blue Aura	Power Shield
Dog	Monster Brawl	Phantom King Blook	Left Handed Controls	Bright Green Aura	Power Shield
Sloth	Gold Quest	Megalodon Blook	Right Handed Controls	Bright Green Aura	Freeze Spell
Astronaut	Cafe Mode	Phantom King Blook	Right Handed Controls	Neon Blue Aura	Freeze Spell
Ghost	Monster Brawl	Astronaut Blook	Left Handed Controls	Neon Blue Aura	Spam Click
Cow	Tower Defense	King Blook	Right Handed Controls	Hot Pink Aura	Freeze Spell
Owl	Cafe Mode	Rainbow Panda Blook	Left Handed Controls	Neon Blue Aura	Freeze Spell

CLUE 1

Fractions of a number

To unlock the first system logs, we must calculate what fraction of the total server tokens were stolen by the rogue program.

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

T						T						T						
3	23	21	25	27	36	3	33	23	36	20	35	12	3	34	20	36	35	25

T														
3	23	21	31	18	36	35	37	12	13	26	18	35	29	18

$1/3 \text{ of } 9 = \square \rightarrow \boxed{\text{T}}$

$1/5 \text{ of } 185 = \square \rightarrow \boxed{\text{B}}$

$6/10 \text{ of } 35 = \square \rightarrow \boxed{\text{E}}$

$1/3 \text{ of } 102 = \square \rightarrow \boxed{\text{U}}$

$6/10 \text{ of } 60 = \square \rightarrow \boxed{\text{I}}$

$1/4 \text{ of } 92 = \square \rightarrow \boxed{\text{H}}$

$4/8 \text{ of } 54 = \square \rightarrow \boxed{\text{L}}$

$4/5 \text{ of } 25 = \square \rightarrow \boxed{\text{S}}$

$1/2 \text{ of } 52 = \square \rightarrow \boxed{\text{P}}$

$2/8 \text{ of } 100 = \square \rightarrow \boxed{\text{G}}$

$2/6 \text{ of } 87 = \square \rightarrow \boxed{\text{D}}$

$1/3 \text{ of } 105 = \square \rightarrow \boxed{\text{N}}$

$1/6 \text{ of } 108 = \square \rightarrow \boxed{\text{A}}$

$1/2 \text{ of } 66 = \square \rightarrow \boxed{\text{C}}$

$1/2 \text{ of } 26 = \square \rightarrow \boxed{\text{W}}$

$2/6 \text{ of } 93 = \square \rightarrow \boxed{\text{R}}$

$8/10 \text{ of } 15 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 2
Order of operations

The security lock requires a complex score calculation using multiplication, addition, and parentheses to bypass the firewall.

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

T															T
28	12	25	53	45	72	11	12	45	50	11	19	54	72	12	28
								T	T			T			
12	14	41	70	25	70	34	56	28	28	45	41	28	14	63	11

$10 \times 3 - 2 = \square \rightarrow \boxed{\text{T}}$

$53 + 2 \times 5 = \square \rightarrow \boxed{\text{P}}$

$9 \times 8 - 19 = \square \rightarrow \boxed{\text{L}}$

$7 \times 9 - 13 = \square \rightarrow \boxed{\text{W}}$

$7 \times 12 - 28 = \square \rightarrow \boxed{\text{U}}$

$6 + 2 \times 3 = \square \rightarrow \boxed{\text{H}}$

$6 \times 10 - 19 = \square \rightarrow \boxed{\text{N}}$

$7 \times 12 - 30 = \square \rightarrow \boxed{\text{I}}$

$5 + 3 \times 2 = \square \rightarrow \boxed{\text{S}}$

$9 \times 7 - 29 = \square \rightarrow \boxed{\text{B}}$

$24 + 3 \times 7 = \square \rightarrow \boxed{\text{O}}$

$9 \times 10 - 18 = \square \rightarrow \boxed{\text{G}}$

$9 \times 4 - 11 = \square \rightarrow \boxed{\text{E}}$

$3 \times 6 - 4 = \square \rightarrow \boxed{\text{A}}$

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

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

Scratch space:

CLUE 3

Multiplication facts (1-12)

To track the glitch's movement, we must count the total number of defense towers arranged in equal rows across the grid map.

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

A															
60	72	40	99	2	81	8	50	50	12	50	10	3	50	99	99
10	99	40	4	10	2	40	4	90	120	96	50	11	99	6	120

$5 \times 12 = \square \rightarrow \text{A}$

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

$2 \times 1 = \square \rightarrow \text{D}$

$9 \times 9 = \square \rightarrow \text{F}$

$5 \times 8 = \square \rightarrow \text{O}$

$9 \times 10 = \square \rightarrow \text{N}$

$8 \times 12 = \square \rightarrow \text{H}$

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

$3 \times 1 = \square \rightarrow \text{P}$

$9 \times 8 = \square \rightarrow \text{C}$

$2 \times 2 = \square \rightarrow \text{W}$

$4 \times 2 = \square \rightarrow \text{R}$

$4 \times 3 = \square \rightarrow \text{Z}$

$10 \times 5 = \square \rightarrow \text{E}$

$3 \times 2 = \square \rightarrow \text{I}$

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

$9 \times 11 = \square \rightarrow \text{L}$

Scratch space:

CLUE 4

The radar only shows approximated player locations, so we must round the signal frequencies to the nearest hundred to get a clean scan.

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

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 14 boxes, and the bottom row contains 16 boxes. The values in the boxes are as follows:

Row	Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16			
Top Row	230	200	1700	70	2300	5000	1700	4300	70	2300	290	230	130	3700	290	130			
Bottom Row	230	20	130	70	1700	2300	1100	200	2300	230	50	3700	290	2900	900	3700	30	200	230

The 12th box in both rows (containing the value 230) is highlighted in orange and labeled with a 'T'.

Round 227 to the nearest ten $\rightarrow$ **T**

Round 2,332 to the nearest hundred $\rightarrow$

Round 3,726 to the nearest hundred $\rightarrow$

Round 186 to the nearest hundred $\rightarrow$ **H**

Round 17 to the nearest ten $\rightarrow$ **R**

Round 4,825 to the nearest thousand → **D**

Round 34 to the nearest ten → **G**

Round 947 to the nearest hundred $\rightarrow$ **L**

Round 4,316 to the nearest hundred → **S**

Round 133 to the nearest ten $\rightarrow$ **A**

Round 1,737 to the nearest hundred → **E**

Round 2,869 to the nearest hundred → **K**

Round 292 to the nearest ten $\rightarrow$ **N**

Round 67 to the nearest ten $\rightarrow$ **C**

Round 48 to the nearest ten → **P**

Round 1,061 to the nearest hundred → **F**

Scratch space:

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

We captured a packet of corrupted data that we need to divide equally among our defense programs to analyze the final piece.

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:

$108 \div 12 = \boxed{}$

$7 \div 1 = \boxed{}$

$144 \div 12 = \boxed{}$

$4 \div 4 = \boxed{}$

$20 \div 5 = \boxed{}$

$16 \div 2 = \boxed{}$

$10 \div 2 = \boxed{}$

$8 \div 4 = \boxed{}$

$11 \div 1 = \boxed{}$

$36 \div 12 = \boxed{}$

$42 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain steals the crypto password, then flees with a stolen crown.
2. The villain summons a massive monster wave, then scrambles the math question database.
3. The villain steals the crypto password, then floods the lobby with spam tokens.
4. The villain hacks the gold chest, then breaks the high score leaderboard.
5. The villain sabotages the cafe order kitchen, then flees with a stolen crown.
6. The villain steals the crypto password, then scrambles the math question database.
7. The villain hacks the gold chest, then locks the player customizer screen.
8. The villain places a glitchy defense tower, then floods the lobby with spam tokens.
9. The villain places a glitchy defense tower, then flees with a stolen crown.
10. The villain sabotages the cafe order kitchen, then floods the lobby with spam tokens.
11. The villain hacks the gold chest, then floods the lobby with spam tokens.
12. The villain summons a massive monster wave, then locks the player customizer screen.

Answer Key

The Blooket Server Glitch

Culprit: Frog

Cafe Mode · Astronaut Blook · Right Handed Controls · Hot Pink Aura · Freeze Spell

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE GLITCH IS NOT USING THE RAINBOW PANDA"

$\frac{1}{3}$ of 9 = 3 (T) · $\frac{1}{5}$ of 185 = 37 (B) · $\frac{6}{10}$ of 35 = 21 (E) · $\frac{1}{3}$ of 102 = 34 (U) · $\frac{6}{10}$ of 60 = 36 (I) · $\frac{1}{4}$ of 92 = 23 (H) · $\frac{4}{8}$ of 54 = 27 (L) · $\frac{4}{5}$ of 25 = 20 (S) · $\frac{1}{2}$ of 52 = 26 (P) · $\frac{2}{8}$ of 100 = 25 (G) · $\frac{2}{6}$ of 87 = 29 (D) · $\frac{1}{3}$ of 105 = 35 (N) · $\frac{1}{6}$ of 108 = 18 (A) · $\frac{1}{2}$ of 66 = 33 (C) · $\frac{1}{2}$ of 26 = 13 (W) · $\frac{2}{6}$ of 93 = 31 (R) · $\frac{8}{10}$ of 15 = 12 (O)

Clue 2 (Order of operations): "THE LOG SHOWS RIGHT HANDED BUTTON TAPS"

$10 \times 3 - 2 = 28$ (T) · $53 + 2 \times 5 = 63$ (P) · $9 \times 8 - 19 = 53$ (L) · $7 \times 9 - 13 = 50$ (W) · $7 \times 12 - 28 = 56$ (U) · $6 + 2 \times 3 = 12$ (H) · $6 \times 10 - 19 = 41$ (N) · $7 \times 12 - 30 = 54$ (I) · $5 + 3 \times 2 = 11$ (S) · $9 \times 7 - 29 = 34$ (B) · $24 + 3 \times 7 = 45$ (O) · $9 \times 10 - 18 = 72$ (G) · $9 \times 4 - 11 = 25$ (E) · $3 \times 6 - 4 = 14$ (A) · $8 \times 10 - 10 = 70$ (D) · $15 + 2 \times 2 = 19$ (R)

Clue 3 (Multiplication facts (1-12)): "A COLD FREEZE SPELL SLOWS DOWN THE GLITCH"

$5 \times 12 = 60$ (A) · $11 \times 1 = 11$ (G) · $2 \times 1 = 2$ (D) · $9 \times 9 = 81$ (F) · $5 \times 8 = 40$ (O) · $9 \times 10 = 90$ (N) · $8 \times 12 = 96$ (H) · $2 \times 5 = 10$ (S) · $3 \times 1 = 3$ (P) · $9 \times 8 = 72$ (C) · $2 \times 2 = 4$ (W) · $4 \times 2 = 8$ (R) · $4 \times 3 = 12$ (Z) · $10 \times 5 = 50$ (E) · $3 \times 2 = 6$ (I) · $12 \times 10 = 120$ (T) · $9 \times 11 = 99$ (L)

Clue 4 (Rounding): "THE CODES CONTAIN A TRACE OF HOT PINK LIGHT"

Round 227 to the nearest ten = 230 (T) · Round 2,332 to the nearest hundred = 2300 (O) · Round 3,726 to the nearest hundred = 3700 (I) · Round 186 to the nearest hundred = 200 (H) · Round 17 to the nearest ten = 20 (R) · Round 4,825 to the nearest thousand = 5000 (D) · Round 34 to the nearest ten = 30 (G) · Round 947 to the nearest hundred = 900 (L) · Round 4,316 to the nearest hundred = 4300 (S) · Round 133 to the nearest ten = 130 (A) · Round 1,737 to the nearest hundred = 1700 (E) · Round 2,869 to the nearest hundred = 2900 (K) · Round 292 to the nearest ten = 290 (N) · Round 67 to the nearest ten = 70 (C) · Round 48 to the nearest ten = 50 (P) · Round 1,061 to the nearest hundred = 1100 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Frog

$108 \div 12 = 9$ · $7 \div 1 = 7$ · $144 \div 12 = 12$ · $4 \div 4 = 1$ · $20 \div 5 = 4$ · $16 \div 2 = 8$ · $10 \div 2 = 5$ · $8 \div 4 = 2$ · $11 \div 1 = 11$ · $36 \div 12 = 3$ · $42 \div 7 = 6$