



# The Great Blooket Server Hack

Grade 5 math · Fractions of a number, Multiplication, Multi-step word problems, Order of operations · Reading level grades 5-6

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The ultimate Blooket trivia match was about to begin when someone hacked the server, locked out the Game Host, and stole the legendary Golden Trophy! A clever Glitch Blook is behind this mess. By decoding server logs and matching game traits, we can find the culprit before the class timer runs out!

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               | HACKING STYLE  | SPECIAL POWERUP    | CLICKER HAND      | HEAD ACCESSORY       | SYSTEM WEAKNESS   |
|--------------------|----------------|--------------------|-------------------|----------------------|-------------------|
| Yeti Blook         | tower defense  | shield potions     | right mouse click | red astronaut helmet | incorrect answers |
| Jester Blook       | crypto hacking | triple multipliers | left mouse click  | pink crown           | shield blocks     |
| Santa Blook        | cafe baking    | freeze spells      | left mouse click  | blue party hat       | incorrect answers |
| Megalodon          | crypto hacking | shield potions     | left mouse click  | red astronaut helmet | incorrect answers |
| Master Elf         | gold stealing  | swift wheels       | right mouse click | pink crown           | time out screens  |
| Agent Owl          | dino throwing  | triple multipliers | left mouse click  | pink crown           | incorrect answers |
| Unicorn Blook      | gold stealing  | triple multipliers | right mouse click | blue party hat       | incorrect answers |
| Astronaut Blook    | cafe baking    | mega chests        | right mouse click | blue party hat       | time out screens  |
| Witch Blook        | crypto hacking | triple multipliers | left mouse click  | pink crown           | incorrect answers |
| French Toast Blook | gold stealing  | shield potions     | right mouse click | pink crown           | time out screens  |
| King Blook         | dino throwing  | freeze spells      | left mouse click  | pink crown           | incorrect answers |
| Zombie Blook       | crypto hacking | freeze spells      | right mouse click | red astronaut helmet | time out screens  |
| Slime Monster      | crypto hacking | shield potions     | right mouse click | blue party hat       | time out screens  |
| Mummy Blook        | cafe baking    | freeze spells      | right mouse click | pink crown           | incorrect answers |
| Elf Blook          | dino throwing  | shield potions     | right mouse click | pink crown           | incorrect answers |
| Penguin Blook      | cafe baking    | freeze spells      | left mouse click  | pink crown           | shield blocks     |
| Spooky Ghost       | crypto hacking | freeze spells      | left mouse click  | pink crown           | incorrect answers |
| Chameleon          | gold stealing  | triple multipliers | left mouse click  | red astronaut helmet | incorrect answers |
| Phantom Blook      | tower defense  | shield potions     | left mouse click  | pink crown           | incorrect answers |
| Owl Blook          | tower defense  | swift wheels       | left mouse click  | pink crown           | time out screens  |
| Brainy Bot         | tower defense  | swift wheels       | left mouse click  | pink crown           | incorrect answers |

**CLUE 1**
**Fractions of a number**

To track the glitch, the Game Host analyzed a fraction of the logged server crashes.

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

|    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|
| T  |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    | T  |
| 16 | 39 | 38 | 22 | 24 | 25 | 25 | 19 | 24 | 17 | 9 | 27 | 38 | 35 | 17 | 27 | 16 |
|    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |
| 18 | 35 | 38 | 28 | 5  | 38 | 38 | 34 | 38 | 35 | 3 | 38 | 25 | 25 | 35 |    |    |

$3/6 \text{ of } 32 = \square \rightarrow \text{T}$

$2/10 \text{ of } 95 = \square \rightarrow \text{A}$

$1/10 \text{ of } 90 = \square \rightarrow \text{D}$

$3/6 \text{ of } 56 = \square \rightarrow \text{F}$

$1/4 \text{ of } 140 = \square \rightarrow \text{S}$

$3/10 \text{ of } 60 = \square \rightarrow \text{U}$

$8/10 \text{ of } 30 = \square \rightarrow \text{I}$

$1/4 \text{ of } 152 = \square \rightarrow \text{E}$

$1/4 \text{ of } 100 = \square \rightarrow \text{L}$

$2/10 \text{ of } 195 = \square \rightarrow \text{H}$

$2/10 \text{ of } 110 = \square \rightarrow \text{V}$

$5/10 \text{ of } 68 = \square \rightarrow \text{Z}$

$2/6 \text{ of } 51 = \square \rightarrow \text{N}$

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

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

$1/3 \text{ of } 81 = \square \rightarrow \text{O}$

Scratch space:

## CLUE 2

## Multiplication facts (1-12)

We checked the game database where point multipliers were stacked in perfect rows.

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

|   |   |   |    |    |    |   |    |   |    |    |   |    |     |    |   |    |   |
|---|---|---|----|----|----|---|----|---|----|----|---|----|-----|----|---|----|---|
| T |   |   |    |    |    | T |    |   |    |    |   |    |     |    |   |    | T |
| 4 | 3 | 1 | 55 | 70 | 27 | 4 | 80 | 3 | 72 | 56 | 1 | 25 | 100 | 70 | 1 | 64 | 4 |

  

|    |    |    |    |   |    |    |    |    |    |  |
|----|----|----|----|---|----|----|----|----|----|--|
|    |    |    |    |   |    |    |    |    |    |  |
| 81 | 42 | 72 | 56 | 1 | 80 | 70 | 27 | 80 | 49 |  |

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

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

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

$11 \times 5 = \square \rightarrow \boxed{\text{G}}$

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

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

$9 \times 3 = \square \rightarrow \boxed{\text{I}}$

$3 \times 1 = \square \rightarrow \boxed{\text{H}}$

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

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

$9 \times 8 = \square \rightarrow \boxed{\text{U}}$

$7 \times 7 = \square \rightarrow \boxed{\text{K}}$

$5 \times 5 = \square \rightarrow \boxed{\text{D}}$

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

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

Scratch space:

## CLUE 3

## Multi-step word problems

We had to calculate the total gold earned over multiple turns of buying and selling powerups.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

|    |    |    |    |    |    |    |    |    |    |  |   |    |    |  |   |
|----|----|----|----|----|----|----|----|----|----|--|---|----|----|--|---|
| I  |    |    |    |    |    |    |    |    | A  |  | S | W  |    |  | S |
| 90 | 11 | 33 | 78 | 12 | 12 | 42 | 33 | 32 | 11 |  |   | 42 | 12 |  |   |

Blook Guide filled 9 boxes with 2 defense towers each, then found 72 more defense towers. How many defense towers are there in all?

Answer:  → **I**

Blook Guide earned 2 gold tokens in each of 6 rounds, plus 34 bonus gold tokens. Then 4 gold tokens were lost. How many gold tokens are left?

Answer:  → **E**

There were 201 gold tokens in all. 9 gold tokens were set aside. The rest were shared equally among 6 Trivia Club. How many gold tokens did each get?

Answer:  → **T**

Blook Guide filled 4 boxes with 8 toy shields each, then found 46 more toy shields. How many toy shields are there in all?

Answer:  → **O**

There were 144 trivia questions in all. 4 Trivia Club used 25 trivia questions each. The other 4 Trivia Club shared the rest equally. How many trivia questions did each of the other Trivia Club get?

Answer:  → **N**

There were 100 score multipliers in all. 4 score multipliers were set aside. The rest were shared equally among 8 Trivia Club. How many score multipliers did each get?

Answer:  → **R**

Blook Guide collected 185 defense towers in the morning and 13 defense towers in the afternoon, then split them equally among 6 Trivia Club. How many defense towers did each get?

Answer:  → **C**

Scratch space:

## CLUE 4

## Order of operations

Solving the server's lock code required evaluating operations in the exact correct order.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|
| W  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |
| 74 | 26 | 45 | 68 | 43 | 54 | 41 | 12 | 39 | 56 | 33 | 68 | 45 | 34 | 9 | 39 | 54 | 25 |

  

|    |    |    |    |    |
|----|----|----|----|----|
|    |    |    | W  |    |
| 29 | 55 | 68 | 74 | 54 |

$9 \times 11 - 25 = \square \rightarrow \boxed{W}$

$5 + 9 \times 4 = \square \rightarrow \boxed{D}$

$50 + 2 \times 3 = \square \rightarrow \boxed{T}$

$5 \times 8 - 7 = \square \rightarrow \boxed{S}$

$60 + 4 \times 2 = \square \rightarrow \boxed{O}$

$10 \times 4 - 14 = \square \rightarrow \boxed{E}$

$8 \times 7 - 17 = \square \rightarrow \boxed{I}$

$1 + 6 \times 7 = \square \rightarrow \boxed{U}$

$8 \times 4 - 3 = \square \rightarrow \boxed{C}$

$17 + 2 \times 4 = \square \rightarrow \boxed{K}$

$35 + 4 \times 5 = \square \rightarrow \boxed{R}$

$22 + 6 \times 2 = \square \rightarrow \boxed{A}$

$4 + 2 \times 4 = \square \rightarrow \boxed{B}$

$9 \times 7 - 9 = \square \rightarrow \boxed{N}$

$12 \times 4 - 3 = \square \rightarrow \boxed{F}$

$1 + 4 \times 2 = \square \rightarrow \boxed{P}$

Scratch space:

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

The detective calculated what fraction of the leftover tokens belonged to the hacker.

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:**

$4/10 \text{ of } 5 = \boxed{\phantom{00}}$

$4/8 \text{ of } 24 = \boxed{\phantom{00}}$

$2/4 \text{ of } 6 = \boxed{\phantom{00}}$

$8/10 \text{ of } 10 = \boxed{\phantom{00}}$

$1/6 \text{ of } 36 = \boxed{\phantom{00}}$

$1/2 \text{ of } 2 = \boxed{\phantom{00}}$

$2/6 \text{ of } 15 = \boxed{\phantom{00}}$

$2/6 \text{ of } 21 = \boxed{\phantom{00}}$

$1/2 \text{ of } 22 = \boxed{\phantom{00}}$

$2/3 \text{ of } 15 = \boxed{\phantom{00}}$

$2/6 \text{ of } 12 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain served burnt toast in the cafe, then spun the fast wheel.
2. The villain placed a level five defense tower, then shielded their points.
3. The villain tossed dino fossils at the leaderboard, then tripled the score.
4. The villain stole gold from players, then tripled the score.
5. The villain stole gold from players, then shielded their points.
6. The villain tossed dino fossils at the leaderboard, then froze the game timer.
7. The villain stole gold from players, then froze the game timer.
8. The villain tossed dino fossils at the leaderboard, then opened a giant chest.
9. The villain hacked the token crypto balance, then tripled the score.
10. The villain tossed dino fossils at the leaderboard, then shielded their points.
11. The villain served burnt toast in the cafe, then shielded their points.
12. The villain placed a level five defense tower, then spun the fast wheel.

# Answer Key

## The Great Blooket Server Hack

### Culprit: Witch Blook

crypto hacking · triple multipliers · left mouse click · pink crown · incorrect answers

Trail: Start 21 → Clue 1 15 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

#### Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE FREEZE SPELLS"

$3/6$  of 32 = 16 (T) ·  $2/10$  of 95 = 19 (A) ·  $1/10$  of 90 = 9 (D) ·  $3/6$  of 56 = 28 (F) ·  $1/4$  of 140 = 35 (S) ·  $3/10$  of 60 = 18 (U) ·  $8/10$  of 30 = 24 (I) ·  $1/4$  of 152 = 38 (E) ·  $1/4$  of 100 = 25 (L) ·  $2/10$  of 195 = 39 (H) ·  $2/10$  of 110 = 22 (V) ·  $5/10$  of 68 = 34 (Z) ·  $2/6$  of 51 = 17 (N) ·  $5/10$  of 10 = 5 (R) ·  $3/5$  of 5 = 3 (P) ·  $1/3$  of 81 = 27 (O)

#### Clue 2 (Multiplication facts (1-12)): "THE GLITCH USED A LEFT MOUSE CLICK"

$1 \times 4 = 4$  (T) ·  $10 \times 10 = 100$  (A) ·  $10 \times 7 = 70$  (L) ·  $11 \times 5 = 55$  (G) ·  $8 \times 10 = 80$  (C) ·  $6 \times 7 = 42$  (O) ·  $9 \times 3 = 27$  (I) ·  $3 \times 1 = 3$  (H) ·  $8 \times 8 = 64$  (F) ·  $1 \times 1 = 1$  (E) ·  $9 \times 8 = 72$  (U) ·  $7 \times 7 = 49$  (K) ·  $5 \times 5 = 25$  (D) ·  $9 \times 9 = 81$  (M) ·  $7 \times 8 = 56$  (S)

#### Clue 3 (Multi-step word problems): "INCORRECT ANSWERS"

Blook Guide filled 9 boxes with 2 defense towers each, then found 72 more defense towers. How many defense towers are there in all? = 90 (I) · Blook Guide earned 2 gold tokens in each of 6 rounds, plus 34 bonus gold tokens. Then 4 gold tokens were lost. How many gold tokens are left? = 42 (E) · There were 201 gold tokens in all. 9 gold tokens were set aside. The rest were shared equally among 6 Trivia Club. How many gold tokens did each get? = 32 (T) · Blook Guide filled 4 boxes with 8 toy shields each, then found 46 more toy shields. How many toy shields are there in all? = 78 (O) · There were 144 trivia questions in all. 4 Trivia Club used 25 trivia questions each. The other 4 Trivia Club shared the rest equally. How many trivia questions did each of the other Trivia Club get? = 11 (N) · There were 100 score multipliers in all. 4 score multipliers were set aside. The rest were shared equally among 8 Trivia Club. How many score multipliers did each get? = 12 (R) · Blook Guide collected 185 defense towers in the morning and 13 defense towers in the afternoon, then split them equally among 6 Trivia Club. How many defense towers did each get? = 33 (C)

#### Clue 4 (Order of operations): "WE FOUND BITS OF A PINK CROWN"

$9 \times 11 - 25 = 74$  (W) ·  $5 + 9 \times 4 = 41$  (D) ·  $50 + 2 \times 3 = 56$  (T) ·  $5 \times 8 - 7 = 33$  (S) ·  $60 + 4 \times 2 = 68$  (O) ·  $10 \times 4 - 14 = 26$  (E) ·  $8 \times 7 - 17 = 39$  (I) ·  $1 + 6 \times 7 = 43$  (U) ·  $8 \times 4 - 3 = 29$  (C) ·  $17 + 2 \times 4 = 25$  (K) ·  $35 + 4 \times 5 = 55$  (R) ·  $22 + 6 \times 2 = 34$  (A) ·  $4 + 2 \times 4 = 12$  (B) ·  $9 \times 7 - 9 = 54$  (N) ·  $12 \times 4 - 3 = 45$  (F) ·  $1 + 4 \times 2 = 9$  (P)

#### Clue 5 (Fractions of a number): surviving statement is box 9 → Witch Blook

$4/10$  of 5 = 2 ·  $4/8$  of 24 = 12 ·  $2/4$  of 6 = 3 ·  $8/10$  of 10 = 8 ·  $1/6$  of 36 = 6 ·  $1/2$  of 2 = 1 ·  $2/6$  of 15 = 5 ·  $2/6$  of 21 = 7 ·  $1/2$  of 22 = 11 ·  $2/3$  of 15 = 10 ·  $2/6$  of 12 = 4