



The Great Blooket Hack

Grade 6 math · Percentages, Exponents, Order of operations, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The annual History Tube Collab was going perfectly until someone hacked the Blooket game server and stole the legendary Golden King Blook. Now, twenty-four of the world's most famous history creators are under suspicion. We need to analyze the digital clues to find out who ruined the stream!

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 Blook Bandit is _____

Possible suspects

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

NAME	BLOOKET STRATEGY	VIDEO ART STYLE	SCREEN SETTING	AVATAR HAT COLOR	UNCOMFORTABLE ERA
Timeline	Speed Clicking	Ancient Costume	Light Mode Theme	Blue Wizard Hat	Victorian Era Trivia
Pixel Pete	Crypto Stealing	Animated Slides	Light Mode Theme	Blue Wizard Hat	Victorian Era Trivia
Sam O Nella	Speed Clicking	Retro Pixel Art	Light Mode Theme	Green Beret Hat	Space Race Trivia
Suibhne	Gold Swapping	Animated Slides	Dark Mode Theme	Blue Wizard Hat	Stone Age Trivia
The Armchair Historian	Shield Blocking	CGI Battle Maps	Dark Mode Theme	Green Beret Hat	Stone Age Trivia
Sabaton History	Gold Swapping	Retro Pixel Art	Dark Mode Theme	Blue Wizard Hat	Victorian Era Trivia
Cognitive Thought	Crypto Stealing	CGI Battle Maps	Light Mode Theme	Blue Wizard Hat	Stone Age Trivia
Blooket Pro Dan	Shield Blocking	Vlog Style Tour	Dark Mode Theme	Green Beret Hat	Space Race Trivia
Extra Credits	Speed Clicking	Animated Slides	Dark Mode Theme	Green Beret Hat	Victorian Era Trivia
History Time	Shield Blocking	Retro Pixel Art	Dark Mode Theme	Red Crown Hat	Space Race Trivia
Nutty History	Crypto Stealing	CGI Battle Maps	Dark Mode Theme	Red Crown Hat	Victorian Era Trivia
Kings and Generals	Gold Swapping	CGI Battle Maps	Light Mode Theme	Red Crown Hat	Space Race Trivia
John Green	Gold Swapping	CGI Battle Maps	Dark Mode Theme	Blue Wizard Hat	Victorian Era Trivia
Weird History	Shield Blocking	Animated Slides	Dark Mode Theme	Blue Wizard Hat	Victorian Era Trivia
Gamer Grace	Crypto Stealing	Animated Slides	Dark Mode Theme	Blue Wizard Hat	Stone Age Trivia
Trivia Tyler	Crypto Stealing	Ancient Costume	Dark Mode Theme	Blue Wizard Hat	Victorian Era Trivia
Tasting History	Gold Swapping	Animated Slides	Dark Mode Theme	Green Beret Hat	Stone Age Trivia
OverSimplified	Glitch Hacking	Ancient Costume	Dark Mode Theme	Red Crown Hat	Stone Age Trivia
Feature History	Shield Blocking	CGI Battle Maps	Dark Mode Theme	Blue Wizard Hat	Space Race Trivia
Lindybeige	Shield Blocking	CGI Battle Maps	Light Mode Theme	Green Beret Hat	Space Race Trivia
Invicta	Shield Blocking	Vlog Style Tour	Dark Mode Theme	Blue Wizard Hat	Victorian Era Trivia

CLUE 1 Percentages

We checked the stream's server log. The bandwidth spiked, and we need to calculate the exact percentage of data leaked to find the first major clue.

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

Diagram illustrating the sequence of numbers and 'T' markers across two rows of boxes. The numbers are arranged in a sequence that follows a specific pattern, with 'T' markers indicating specific points in the sequence.

Row 1: [T] 7, 24, 44, 27, 25, 23, 23, 21, 25, 4, 33, 40, 44, 5, 4, 40, [T] 7

Row 2: 11, 5, 44, 27, 23, 40, 16, 5, [T] 7, 1, 23, 44, [T] 7, 40, 11, 3

5% of 140 = $\rightarrow$ **T**

25% of 84 = $\rightarrow$ **A**

25% of 44 = $\rightarrow$ **U**

25% of 20 = → **S**

20% of 80 = → **G**

5% of 20 = → **Y**

50% of 80 = $\rightarrow$ ☐

50% of 50 = $\rightarrow$ I

25% of 108 = $\rightarrow$ **V**

60% of 5 = → **R**

40% of 60 = → **H**

40% of 10 = → **N**

50% of 88 = → **E**

25% of 92 = → **L**

5% of 660 = $\rightarrow$ **D**

Scratch space:

CLUE 2 Exponents

The hacker locked their profile with an encrypted Blooket password. Solve this exponential growth problem to crack the security layer!

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

T																	
32	169	25	49	361	225	121	225	4	125	289	64	361	25	196	25	361	343

								T					
256	125	361	400	121	8	256	25	32	169	25	121	25	

$2^5 = \square \rightarrow \text{T}$	$19^2 = \square \rightarrow \text{R}$	$2^3 = \square \rightarrow \text{O}$	$5^3 = \square \rightarrow \text{A}$
$20^2 = \square \rightarrow \text{K}$	$17^2 = \square \rightarrow \text{L}$	$7^2 = \square \rightarrow \text{C}$	$11^2 = \square \rightarrow \text{M}$
$5^2 = \square \rightarrow \text{E}$	$2^2 = \square \rightarrow \text{N}$	$14^2 = \square \rightarrow \text{F}$	$16^2 = \square \rightarrow \text{D}$
$7^3 = \square \rightarrow \text{S}$	$13^2 = \square \rightarrow \text{H}$	$4^3 = \square \rightarrow \text{P}$	$15^2 = \square \rightarrow \text{I}$

Scratch space:

CLUE 3

Order of operations

To restore the scoreboard, we must follow the correct order of operations on the server's control panel. This will reveal the next hint.

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

T					T								
70	31	14	6	76	70	80	10	55	60	14	40	16	

			T									T					
75	17	52	70	40	15	17	71	16	14	15	71	70	15	17	75	17	71

$50 + 5 \times 4 = \square \rightarrow \text{[T]}$

$38 + 6 \times 7 = \square \rightarrow \text{[U]}$

$34 + 2 \times 9 = \square \rightarrow \text{[C]}$

$5 + 3 \times 3 = \square \rightarrow \text{[E]}$

$5 \times 4 - 4 = \square \rightarrow \text{[N]}$

$9 \times 7 - 3 = \square \rightarrow \text{[L]}$

$12 \times 4 - 17 = \square \rightarrow \text{[H]}$

$6 \times 4 - 9 = \square \rightarrow \text{[R]}$

$30 + 5 \times 9 = \square \rightarrow \text{[V]}$

$4 + 2 \times 3 = \square \rightarrow \text{[M]}$

$28 + 3 \times 4 = \square \rightarrow \text{[O]}$

$8 \times 11 - 17 = \square \rightarrow \text{[A]}$

$39 + 2 \times 8 = \square \rightarrow \text{[B]}$

$7 \times 3 - 15 = \square \rightarrow \text{[Y]}$

$7 \times 6 - 25 = \square \rightarrow \text{[I]}$

$12 \times 7 - 8 = \square \rightarrow \text{[S]}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The suspect purchased multiple packs of Blook to boost their rating. Multiply the rows of digital tokens to uncover their identity trail.

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

B													
20	28	11	10	12	14	108	120	5	16	50	120	56	
64	28	14	56	44	50	10	48	14	35	48	25	48	56

$10 \times 2 = \square \rightarrow \text{B}$

$8 \times 8 = \square \rightarrow \text{G}$

$7 \times 2 = \square \rightarrow \text{I}$

$5 \times 7 = \square \rightarrow \text{N}$

$12 \times 9 = \square \rightarrow \text{Z}$

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

$11 \times 4 = \square \rightarrow \text{C}$

$2 \times 8 = \square \rightarrow \text{D}$

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

$7 \times 8 = \square \rightarrow \text{T}$

$5 \times 5 = \square \rightarrow \text{Y}$

$12 \times 4 = \square \rightarrow \text{S}$

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

$11 \times 6 = \square \rightarrow \text{M}$

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

$7 \times 4 = \square \rightarrow \text{L}$

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

$5 \times 1 = \square \rightarrow \text{R}$

Scratch space:

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

We found a stash of stolen reward points. Divide the loot equally among the lobby players to expose the final piece of evidence.

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:

$132 \div 11 = \boxed{}$

$24 \div 4 = \boxed{}$

$16 \div 2 = \boxed{}$

$50 \div 10 = \boxed{}$

$50 \div 5 = \boxed{}$

$24 \div 6 = \boxed{}$

$36 \div 12 = \boxed{}$

$22 \div 11 = \boxed{}$

$12 \div 12 = \boxed{}$

$90 \div 10 = \boxed{}$

$88 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain drained the digital vault, then vlogged the entire real-world heist.
2. The villain hacked the game server, then rendered a custom animated history short.
3. The villain hacked the game server, then uploaded a massive battle map video.
4. The villain hacked the game server, then vlogged the entire real-world heist.
5. The villain spammed the answer buttons, then dressed up as a Roman soldier.
6. The villain swapped the leading scores, then uploaded a massive battle map video.
7. The villain drained the digital vault, then dressed up as a Roman soldier.
8. The villain swapped the leading scores, then pixelated the entire stream screen.
9. The villain drained the digital vault, then uploaded a massive battle map video.
10. The villain swapped the leading scores, then dressed up as a Roman soldier.
11. The villain spammed the answer buttons, then pixelated the entire stream screen.
12. The villain deployed a defensive firewall, then rendered a custom animated history short.

Answer Key

The Great Blooket Hack

Culprit: Trivia Tyler

Crypto Stealing · Ancient Costume · Dark Mode Theme · Blue Wizard Hat · Victorian Era Trivia

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Percentages): "THE VILLAIN DOES NOT USE VLOG STYLE TOUR"

5% of 140 = 7 (T) · 25% of 84 = 21 (A) · 25% of 44 = 11 (U) · 25% of 20 = 5 (S) · 20% of 80 = 16 (G) · 5% of 20 = 1 (Y) · 50% of 80 = 40 (O) · 50% of 50 = 25 (I) · 25% of 108 = 27 (V) · 60% of 5 = 3 (R) · 40% of 60 = 24 (H) · 40% of 10 = 4 (N) · 50% of 88 = 44 (E) · 25% of 92 = 23 (L) · 5% of 660 = 33 (D)

Clue 2 (Exponents): "THE CRIMINAL PREFERS DARK MODE THEME"

$2^5 = 32$ (T) · $19^2 = 361$ (R) · $2^3 = 8$ (O) · $5^3 = 125$ (A) · $20^2 = 400$ (K) · $17^2 = 289$ (L) · $7^2 = 49$ (C) · $11^2 = 121$ (M) · $5^2 = 25$ (E) · $2^2 = 4$ (N) · $14^2 = 196$ (F) · $16^2 = 256$ (D) · $7^3 = 343$ (S) · $13^2 = 169$ (H) · $4^3 = 64$ (P) · $15^2 = 225$ (I)

Clue 3 (Order of operations): "THEY STUMBLE ON VICTORIAN ERA TRIVIA"

$50 + 5 \times 4 = 70$ (T) · $38 + 6 \times 7 = 80$ (U) · $34 + 2 \times 9 = 52$ (C) · $5 + 3 \times 3 = 14$ (E) · $5 \times 4 - 4 = 16$ (N) · $9 \times 7 - 3 = 60$ (L) · $12 \times 4 - 17 = 31$ (H) · $6 \times 4 - 9 = 15$ (R) · $30 + 5 \times 9 = 75$ (V) · $4 + 2 \times 3 = 10$ (M) · $28 + 3 \times 4 = 40$ (O) · $8 \times 11 - 17 = 71$ (A) · $39 + 2 \times 8 = 55$ (B) · $7 \times 3 - 15 = 6$ (Y) · $7 \times 6 - 25 = 17$ (I) · $12 \times 7 - 8 = 76$ (S)

Clue 4 (Multiplication facts (1-12)): "BLUE WIZARD HAT GLITCHES IN SYSTEM"

$10 \times 2 = 20$ (B) · $8 \times 8 = 64$ (G) · $7 \times 2 = 14$ (I) · $5 \times 7 = 35$ (N) · $12 \times 9 = 108$ (Z) · $4 \times 3 = 12$ (W) · $11 \times 4 = 44$ (C) · $2 \times 8 = 16$ (D) · $11 \times 1 = 11$ (U) · $7 \times 8 = 56$ (T) · $5 \times 5 = 25$ (Y) · $12 \times 4 = 48$ (S) · $2 \times 5 = 10$ (E) · $11 \times 6 = 66$ (M) · $10 \times 12 = 120$ (A) · $7 \times 4 = 28$ (L) · $10 \times 5 = 50$ (H) · $5 \times 1 = 5$ (R)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Trivia Tyler

$132 \div 11 = 12$ · $24 \div 4 = 6$ · $16 \div 2 = 8$ · $50 \div 10 = 5$ · $50 \div 5 = 10$ · $24 \div 6 = 4$ · $36 \div 12 = 3$ · $22 \div 11 = 2$ · $12 \div 12 = 1$ · $90 \div 10 = 9$ · $88 \div 8 = 11$