



# The Golden Bloxy Heist

Grade 5 math · Place value, Subtraction, Addition, Multiplication, Division · Reading level grades 3-4

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

Oh no! Someone hacked into the Robloxia master server and stole the legendary Golden Bloxy Award! Builderman needs your help. We must search the digital grid, solve the math puzzles, and track down the culprit before the entire platform crashes!

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 Hacker is** \_\_\_\_\_

## Possible suspects

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

| NAME             | AVATAR GEAR       | BACKPACK ITEM    | GAMING SETUP       | AVATAR HAIR         | GAME GLITCH      |
|------------------|-------------------|------------------|--------------------|---------------------|------------------|
| Guest666         | Jetpack Fly       | Golden Sword     | Right Handed Mouse | Blue Beautiful Hair | Lava Brick Floor |
| DenisDaily       | Speed Coil Run    | Rainbow Ride     | Right Handed Mouse | Blue Beautiful Hair | Oof Sound Effect |
| KreekCraft       | Sword Fight Slice | Rainbow Ride     | Left Handed Mouse  | Classic Spiky Hair  | Oof Sound Effect |
| BloxyDev         | Freeze Ray Blast  | Rainbow Ride     | Right Handed Mouse | Bacon Hair          | Respawn Button   |
| Shedletsky       | Jetpack Fly       | Rainbow Ride     | Left Handed Mouse  | Blue Beautiful Hair | Respawn Button   |
| ItsFunneh        | Freeze Ray Blast  | Golden Sword     | Right Handed Mouse | Classic Spiky Hair  | Lava Brick Floor |
| AdoptFan         | Freeze Ray Blast  | Golden Sword     | Right Handed Mouse | Bacon Hair          | Oof Sound Effect |
| MeganPlays       | Jetpack Fly       | Pizza Box Shield | Right Handed Mouse | Blue Beautiful Hair | Lava Brick Floor |
| PiggyPlayer      | Gravity Coil Jump | Glitch Wings     | Right Handed Mouse | Blue Beautiful Hair | Lava Brick Floor |
| CreeperKid       | Freeze Ray Blast  | Rainbow Ride     | Right Handed Mouse | Blue Beautiful Hair | Oof Sound Effect |
| InquisitorMaster | Jetpack Fly       | Pizza Box Shield | Right Handed Mouse | Bacon Hair          | Lava Brick Floor |
| Flamingo         | Freeze Ray Blast  | Golden Sword     | Right Handed Mouse | Blue Beautiful Hair | Oof Sound Effect |
| TycoonBoss       | Sword Fight Slice | Pizza Box Shield | Right Handed Mouse | Classic Spiky Hair  | Lava Brick Floor |
| PrestonPlayz     | Sword Fight Slice | Pizza Box Shield | Left Handed Mouse  | Blue Beautiful Hair | Lava Brick Floor |
| ScriptLord       | Gravity Coil Jump | Neon Dog Pet     | Right Handed Mouse | Bacon Hair          | Lava Brick Floor |
| Builderman       | Sword Fight Slice | Neon Dog Pet     | Left Handed Mouse  | Classic Spiky Hair  | Lava Brick Floor |
| NoobMaster       | Sword Fight Slice | Pizza Box Shield | Left Handed Mouse  | Classic Spiky Hair  | Oof Sound Effect |
| LeahAshe         | Gravity Coil Jump | Golden Sword     | Left Handed Mouse  | Classic Spiky Hair  | Lava Brick Floor |
| DominoKnight     | Freeze Ray Blast  | Rainbow Ride     | Right Handed Mouse | Blue Beautiful Hair | Lava Brick Floor |
| PizzaBaker       | Speed Coil Run    | Glitch Wings     | Right Handed Mouse | Classic Spiky Hair  | Oof Sound Effect |
| Telamon          | Speed Coil Run    | Pizza Box Shield | Right Handed Mouse | Blue Beautiful Hair | Lava Brick Floor |

### CLUE 1

We found a locked digital vault on the master server. The locked screen is showing giant high scores, and we must work out the place value of the flashing digit to unlock the first clues.

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

2000 30 80 9000 400 6000 6000 800 400 100 700 60 80 600 100 60 2000

30 800 9000 80 10 6000 400 2000 50 30 4000 400 100 10 600

What is the value of the 2 in 12,771?  → **T**

What is the value of the 3 in 464,237?  → **H**

What is the value of the 6 in 946,397?  → **L**

What is the value of the 8 in 39,287?  → **E**

What is the value of the 9 in 279,063?  → **V**

What is the value of the 4 in 94,523?  → **W**

What is the value of the 8 in 51,870?  → **A**

What is the value of the 7 in 585,760?  → **D**

What is the value of the 6 in 940,639?  → **S**

What is the value of the 4 in 52,489?  →

What is the value of the 5 in 722,357?  → **C**

What is the value of the 6 in 72,161?  →

What is the value of the 1 in 29,416?  → **G**

What is the value of the 1 in 992,199?  → **N**

Scratch space:

## CLUE 2 Subtraction

The Glitch Hacker deleted some of our server memory files to slow us down! We need to subtract the ruined files from our starting total to find the server path.

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

|              |             |             |             |             |             |              |             |             |             |             |             |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 3013         | 7238        | 6643        | 8655        | 6674        | 2630        | 3013         | 1590        | 7238        | 6643        | 4539        | 2869        | 3803        | 6643        | 8182        | 4712        |

  

|             |             |             |             |              |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 4539        | 2630        | 8655        | 7238        | 3013         | 7238        | 4712        | 7162        | 8182        | 6643        | 8182        | 3878        | 3790        | 2869        | 3803        | 6643        |

$7874 - 4861 = \square \rightarrow \text{T}$

$7077 - 4208 = \square \rightarrow \text{U}$

$7666 - 2954 = \square \rightarrow \text{A}$

$10234 - 3591 = \square \rightarrow \text{E}$

$11522 - 4360 = \square \rightarrow \text{N}$

$12236 - 3581 = \square \rightarrow \text{G}$

$10604 - 3930 = \square \rightarrow \text{L}$

$7329 - 91 = \square \rightarrow \text{H}$

$5693 - 1890 = \square \rightarrow \text{S}$

$4048 - 258 = \square \rightarrow \text{O}$

$6122 - 3492 = \square \rightarrow \text{I}$

$4963 - 424 = \square \rightarrow \text{R}$

$1599 - 9 = \square \rightarrow \text{C}$

$4659 - 781 = \square \rightarrow \text{M}$

$9749 - 1567 = \square \rightarrow \text{D}$

Scratch space:

### CLUE 3 Addition

To build a glowing bridge across the broken obby, we must add up all the spare brick piles we can find in the game code.

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

|              |             |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 3387         | 2899        | 9613        | 3839        | 7166        | 3656        | 3656        | 4123        | 7166        | 8441        | 3387         | 4664        | 7166        | 3935        | 3935        | 9613        | 5977        | 3542        | 8441        |
| <div></div>  | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div>  | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 3656         | 4123        | 3839        | 4123        | 4888        | 4664        | 7166        | 8536        | 9617        | 5173        |              |             |             |             |             |             |             |             |             |

|                                              |                                              |                                              |
|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| $1370 + 2017 = \square \rightarrow \text{T}$ | $1289 + 1610 = \square \rightarrow \text{H}$ | $2349 + 1586 = \square \rightarrow \text{P}$ |
| $2213 + 2960 = \square \rightarrow \text{S}$ | $1804 + 3084 = \square \rightarrow \text{B}$ | $3232 + 6381 = \square \rightarrow \text{E}$ |
| $3513 + 5023 = \square \rightarrow \text{C}$ | $2276 + 1266 = \square \rightarrow \text{O}$ | $4036 + 1941 = \square \rightarrow \text{D}$ |
| $3207 + 1457 = \square \rightarrow \text{R}$ | $6359 + 3258 = \square \rightarrow \text{K}$ | $2227 + 1612 = \square \rightarrow \text{V}$ |
| $3781 + 4660 = \square \rightarrow \text{N}$ | $2098 + 1558 = \square \rightarrow \text{L}$ | $2947 + 4219 = \square \rightarrow \text{I}$ |
| $1772 + 2351 = \square \rightarrow \text{A}$ |                                              |                                              |

Scratch space:

## CLUE 4

## Multiplication facts (1-12)

The hacker blocked the main game portal with rows of solid neon crates. We can multiply the rows by the columns to see how many code blocks we need to break.

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

|    |   |    |   |    |   |    |    |   |    |    |    |   |    |    |    |    |    |  |  |
|----|---|----|---|----|---|----|----|---|----|----|----|---|----|----|----|----|----|--|--|
| A  |   |    |   |    |   |    | A  |   |    |    |    |   |    |    |    |    | A  |  |  |
| 56 | 9 | 70 | 4 | 99 | 9 | 99 | 56 | 4 | 66 | 22 | 96 | 4 | 70 | 27 | 56 | 22 | 54 |  |  |

  

|    |    |    |    |    |    |    |   |    |    |    |    |    |
|----|----|----|----|----|----|----|---|----|----|----|----|----|
|    | A  |    |    |    |    |    |   |    |    |    |    |    |
| 32 | 56 | 49 | 70 | 99 | 96 | 66 | 9 | 99 | 27 | 22 | 60 | 45 |

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

$11 \times 2 = \square \rightarrow \boxed{\text{I}}$

$5 \times 12 = \square \rightarrow \boxed{\text{N}}$

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

$6 \times 9 = \square \rightarrow \boxed{\text{R}}$

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

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

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

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

$4 \times 8 = \square \rightarrow \boxed{\text{W}}$

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

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

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

$1 \times 9 = \square \rightarrow \boxed{\text{B}}$

Scratch space:

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

We made it past the final firewall! To power down the villain's mainframe, we must divide our battery cells equally among the five server plugs.

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:**

$30 \div 5 = \boxed{\phantom{00}}$

$88 \div 8 = \boxed{\phantom{00}}$

$33 \div 11 = \boxed{\phantom{00}}$

$96 \div 8 = \boxed{\phantom{00}}$

$16 \div 8 = \boxed{\phantom{00}}$

$36 \div 9 = \boxed{\phantom{00}}$

$24 \div 3 = \boxed{\phantom{00}}$

$42 \div 6 = \boxed{\phantom{00}}$

$100 \div 10 = \boxed{\phantom{00}}$

$50 \div 10 = \boxed{\phantom{00}}$

$27 \div 3 = \boxed{\phantom{00}}$

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

1. The villain flies with a jetpack, then swings a golden sword.
2. The villain flies with a jetpack, then spreads glitch wings.
3. The villain flies with a jetpack, then blocks with a pizza box shield.
4. The villain jumps with a gravity coil, then blocks with a pizza box shield.
5. The villain blasts a freeze ray, then swings a golden sword.
6. The villain blasts a freeze ray, then speeds away on a rainbow ride.
7. The villain flies with a jetpack, then summons a neon dog pet.
8. The villain slices with a sword, then swings a golden sword.
9. The villain blasts a freeze ray, then blocks with a pizza box shield.
10. The villain slices with a sword, then blocks with a pizza box shield.
11. The villain runs with a speed coil, then blocks with a pizza box shield.
12. The villain jumps with a gravity coil, then summons a neon dog pet.

# Answer Key

## The Golden Bloxy Heist

### Culprit: Guest666

Jetpack Fly · Golden Sword · Right Handed Mouse · Blue Beautiful Hair · Lava Brick Floor

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

#### Clue 1 (Place value): "THE VILLAIN DOES NOT HAVE GLITCH WINGS"

What is the value of the 2 in 12,771? = 2000 (T) · What is the value of the 3 in 464,237? = 30 (H) · What is the value of the 6 in 946,397? = 6000 (L) · What is the value of the 8 in 39,287? = 80 (E) · What is the value of the 9 in 279,063? = 9000 (V) · What is the value of the 4 in 94,523? = 4000 (W) · What is the value of the 8 in 51,870? = 800 (A) · What is the value of the 7 in 585,760? = 700 (D) · What is the value of the 6 in 940,639? = 600 (S) · What is the value of the 4 in 52,489? = 400 (I) · What is the value of the 5 in 722,357? = 50 (C) · What is the value of the 6 in 72,161? = 60 (O) · What is the value of the 1 in 29,416? = 10 (G) · What is the value of the 1 in 992,199? = 100 (N)

#### Clue 2 (Subtraction): "THE GLITCHER USED A RIGHT HANDED MOUSE"

7874 - 4861 = 3013 (T) · 7077 - 4208 = 2869 (U) · 7666 - 2954 = 4712 (A) · 10234 - 3591 = 6643 (E) · 11522 - 4360 = 7162 (N) · 12236 - 3581 = 8655 (G) · 10604 - 3930 = 6674 (L) · 7329 - 91 = 7238 (H) · 5693 - 1890 = 3803 (S) · 4048 - 258 = 3790 (O) · 6122 - 3492 = 2630 (I) · 4963 - 424 = 4539 (R) · 1599 - 9 = 1590 (C) · 4659 - 781 = 3878 (M) · 9749 - 1567 = 8182 (D)

#### Clue 3 (Addition): "THE VILLAIN TRIPPED ON LAVA BRICKS"

1370 + 2017 = 3387 (T) · 1289 + 1610 = 2899 (H) · 2349 + 1586 = 3935 (P) · 2213 + 2960 = 5173 (S) · 1804 + 3084 = 4888 (B) · 3232 + 6381 = 9613 (E) · 3513 + 5023 = 8536 (C) · 2276 + 1266 = 3542 (O) · 4036 + 1941 = 5977 (D) · 3207 + 1457 = 4664 (R) · 6359 + 3258 = 9617 (K) · 2227 + 1612 = 3839 (V) · 3781 + 4660 = 8441 (N) · 2098 + 1558 = 3656 (L) · 2947 + 4219 = 7166 (I) · 1772 + 2351 = 4123 (A)

#### Clue 4 (Multiplication facts (1-12)): "A BLUE BEAUTIFUL HAIR WAS LEFT BEHIND"

$7 \times 8 = 56$  (A) ·  $11 \times 2 = 22$  (I) ·  $5 \times 12 = 60$  (N) ·  $8 \times 12 = 96$  (F) ·  $6 \times 9 = 54$  (R) ·  $11 \times 6 = 66$  (T) ·  $4 \times 1 = 4$  (U) ·  $7 \times 7 = 49$  (S) ·  $9 \times 3 = 27$  (H) ·  $4 \times 8 = 32$  (W) ·  $10 \times 7 = 70$  (L) ·  $9 \times 5 = 45$  (D) ·  $9 \times 11 = 99$  (E) ·  $1 \times 9 = 9$  (B)

#### Clue 5 (Division facts (1-12)): surviving statement is box 1 → Guest666

$30 \div 5 = 6$  ·  $88 \div 8 = 11$  ·  $33 \div 11 = 3$  ·  $96 \div 8 = 12$  ·  $16 \div 8 = 2$  ·  $36 \div 9 = 4$  ·  $24 \div 3 = 8$  ·  $42 \div 6 = 7$  ·  $100 \div 10 = 10$  ·  $50 \div 10 = 5$  ·  $27 \div 3 = 9$