

# The Golden Apple Heist

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

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

A sneaky player broke into the main castle and stole the ultra-rare Golden Apple right out of the Admin's locked chest! The culprit is still online somewhere in the biome. We must look at the blocky evidence, solve the clues, and find out who did it before they log off for the night.

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 mysterious griever is** \_\_\_\_\_

## Possible suspects

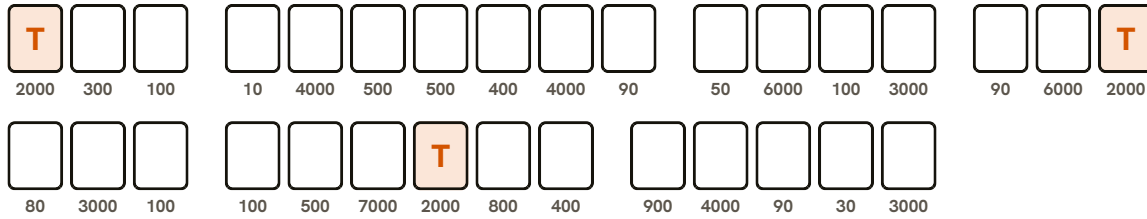
Cross off a row as each clue rules it out. The one left at the end is the culprit.

| NAME       | GRIEFING ACTION         | HELD TOOL       | TORCH PLACEMENT HAND        | HELMET CHOICE | FOIL WEAPON         |
|------------|-------------------------|-----------------|-----------------------------|---------------|---------------------|
| Stampy     | spawning creepers       | enchanted bow   | holding torch in left hand  | leather cap   | splashed with water |
| George     | placing lava blocks     | elytra wings    | holding torch in right hand | leather cap   | hit with snowballs  |
| Dream      | building obsidian walls | ender pearls    | holding torch in left hand  | golden helmet | trapped in cobwebs  |
| Steve      | placing lava blocks     | ender pearls    | holding torch in right hand | iron helmet   | splashed with water |
| Sky        | brewing poison potions  | elytra wings    | holding torch in left hand  | iron helmet   | splashed with water |
| Tubbo      | building obsidian walls | diamond pickaxe | holding torch in left hand  | leather cap   | hit with snowballs  |
| Sparklez   | spawning creepers       | ender pearls    | holding torch in left hand  | leather cap   | splashed with water |
| Etho       | spawning creepers       | elytra wings    | holding torch in left hand  | leather cap   | splashed with water |
| Scar       | brewing poison potions  | enchanted bow   | holding torch in left hand  | iron helmet   | splashed with water |
| Sapnap     | digging straight down   | enchanted bow   | holding torch in left hand  | iron helmet   | splashed with water |
| Hermit     | brewing poison potions  | netherite sword | holding torch in left hand  | iron helmet   | hit with snowballs  |
| DanTDM     | brewing poison potions  | diamond pickaxe | holding torch in left hand  | iron helmet   | hit with snowballs  |
| Joel       | placing lava blocks     | elytra wings    | holding torch in right hand | golden helmet | trapped in cobwebs  |
| Techno     | spawning creepers       | enchanted bow   | holding torch in left hand  | iron helmet   | splashed with water |
| Ranboo     | brewing poison potions  | netherite sword | holding torch in right hand | iron helmet   | trapped in cobwebs  |
| Grian      | brewing poison potions  | diamond pickaxe | holding torch in right hand | golden helmet | hit with snowballs  |
| Alex       | digging straight down   | enchanted bow   | holding torch in right hand | golden helmet | trapped in cobwebs  |
| Philza     | placing lava blocks     | enchanted bow   | holding torch in right hand | leather cap   | splashed with water |
| BadBoyHalo | placing lava blocks     | enchanted bow   | holding torch in left hand  | iron helmet   | splashed with water |
| Tommy      | building obsidian walls | netherite sword | holding torch in right hand | golden helmet | hit with snowballs  |
| Lizzie     | spawning creepers       | netherite sword | holding torch in right hand | golden helmet | splashed with water |

## CLUE 1 Place value

Glowing redstone dust leaves behind a trail of energy. Let's look at the power readout on this block to see which digit is in the tens place.

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



What is the value of the 2 in 2,778?  → **T**

What is the value of the 4 in 5,463?  → **A**

What is the value of the 4 in 4,018?  → **I**

What is the value of the 9 in 926?  → **W**

What is the value of the 1 in 6,178?  → **E**

What is the value of the 3 in 8,325?  → **H**

What is the value of the 1 in 610?  → **V**

What is the value of the 6 in 6,222?  → **O**

What is the value of the 5 in 6,457?  → **D**

What is the value of the 3 in 538?  → **G**

What is the value of the 5 in 4,598?  → **L**

What is the value of the 7 in 57,636?  → **Y**

What is the value of the 3 in 73,590?  → **S**

What is the value of the 8 in 839?  → **R**

What is the value of the 8 in 685?  → **U**

What is the value of the 9 in 5,391?  → **N**

Scratch space:

## CLUE 2 Addition

A double chest is filled with looted cobblestone. If we add up the blocks in the top and bottom rows, we will find the clue code.

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| T   |     |     |     |     |     |     |     | T   |     |     |     |     |     |     |     |  |
| 205 | 979 | 642 | 321 | 930 | 916 | 930 | 205 | 943 | 754 | 942 | 919 | 374 | 438 | 642 | 418 |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| T   |     |     |     |     |     |     |     |     |     | T   |     |     |     |     |     |  | T |
| 205 | 943 | 754 | 438 | 979 | 642 | 916 | 943 | 379 | 205 | 979 | 642 | 919 | 642 | 338 | 205 |  |   |

|     |     |     |     |
|-----|-----|-----|-----|
|     |     |     |     |
| 653 | 374 | 919 | 919 |

|                                                    |                                                    |                                                    |
|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| $116 + 89 = \square \rightarrow \boxed{\text{T}}$  | $232 + 186 = \square \rightarrow \boxed{\text{D}}$ | $247 + 132 = \square \rightarrow \boxed{\text{N}}$ |
| $202 + 119 = \square \rightarrow \boxed{\text{V}}$ | $499 + 420 = \square \rightarrow \boxed{\text{L}}$ | $133 + 241 = \square \rightarrow \boxed{\text{A}}$ |
| $365 + 551 = \square \rightarrow \boxed{\text{S}}$ | $357 + 622 = \square \rightarrow \boxed{\text{H}}$ | $479 + 463 = \square \rightarrow \boxed{\text{P}}$ |
| $213 + 225 = \square \rightarrow \boxed{\text{C}}$ | $488 + 442 = \square \rightarrow \boxed{\text{I}}$ | $657 + 286 = \square \rightarrow \boxed{\text{O}}$ |
| $444 + 198 = \square \rightarrow \boxed{\text{E}}$ | $253 + 501 = \square \rightarrow \boxed{\text{R}}$ | $296 + 357 = \square \rightarrow \boxed{\text{W}}$ |
| $132 + 206 = \square \rightarrow \boxed{\text{F}}$ |                                                    |                                                    |

Scratch space:

### CLUE 3 Rounding

The coordinates on the compass are glitching. We must round the numbers to the nearest ten to pinpoint the thief's escape path.

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

|     |      |     |     |      |    |      |     |      |     |      |     |    |     |    |    |      |    |      |
|-----|------|-----|-----|------|----|------|-----|------|-----|------|-----|----|-----|----|----|------|----|------|
| T   |      |     | T   |      |    |      |     |      |     |      |     |    |     |    |    |      |    |      |
| 200 | 2000 | 30  | 200 | 2000 | 40 | 30   | 50  | 4000 | 500 | 5000 | 500 | 80 | 500 | 20 | 80 | 2000 | 30 | 5000 |
|     |      | T   |     |      |    |      |     |      |     |      |     |    |     |    |    |      |    |      |
| 80  | 500  | 200 | 30  | 4000 | 50 | 3000 | 600 | 80   | 30  | 70   |     |    |     |    |    |      |    |      |

Round 200 to the nearest hundred  → **T**

Round 24 to the nearest ten  → **Y**

Round 4,031 to the nearest thousand  → **R**

Round 4,696 to the nearest thousand  → **N**

Round 70 to the nearest ten  → **D**

Round 80 to the nearest ten  → **W**

Round 3,055 to the nearest thousand  → **L**

Round 30 to the nearest ten  → **E**

Round 54 to the nearest ten  → **F**

Round 621 to the nearest hundred  → **O**

Round 507 to the nearest hundred  → **A**

Round 2,076 to the nearest thousand  → **H**

Round 42 to the nearest ten  → **I**

Scratch space:

**CLUE 4**
**Subtraction**

The thief dropped a bundle of torches on the grass. Subtracting the torches left behind from the full stack will reveal the next secret.

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

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| A   |     |     |     |     |     |     |     |     |     |     |     |
| 899 | 303 | 544 | 827 | 841 | 303 | 886 | 105 | 256 | 275 | 105 | 236 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | A   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 288 | 505 | 827 | 899 | 236 | 505 | 886 | 105 | 174 | 236 | 886 | 105 | 505 | 105 | 544 | 256 | 544 | 303 | 708 |

$1007 - 108 = \square \rightarrow \boxed{\text{A}}$

$569 - 25 = \square \rightarrow \boxed{\text{I}}$

$339 - 234 = \square \rightarrow \boxed{\text{E}}$

$1068 - 227 = \square \rightarrow \boxed{\text{O}}$

$1108 - 400 = \square \rightarrow \boxed{\text{G}}$

$1143 - 257 = \square \rightarrow \boxed{\text{H}}$

$798 - 293 = \square \rightarrow \boxed{\text{C}}$

$566 - 310 = \square \rightarrow \boxed{\text{L}}$

$255 - 81 = \square \rightarrow \boxed{\text{D}}$

$462 - 159 = \square \rightarrow \boxed{\text{N}}$

$335 - 47 = \square \rightarrow \boxed{\text{S}}$

$454 - 218 = \square \rightarrow \boxed{\text{T}}$

$1037 - 210 = \square \rightarrow \boxed{\text{R}}$

$277 - 2 = \square \rightarrow \boxed{\text{M}}$

Scratch space:

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

We found a pack of hungry wolves at the spawn point. Sharing the bones equally among them will make them happy enough to sniff out a clue.

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:**

$108 \div 9 = \square$

$27 \div 9 = \square$

$88 \div 11 = \square$

$8 \div 2 = \square$

$99 \div 9 = \square$

$3 \div 3 = \square$

$45 \div 5 = \square$

$5 \div 1 = \square$

$10 \div 5 = \square$

$48 \div 8 = \square$

$40 \div 4 = \square$

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

1. The villain spawned scary creepers, then teleported away using ender pearls.
2. The villain spawned scary creepers, then dug away with a diamond pickaxe.
3. The villain brewed nasty poison, then shot arrows with an enchanted bow.
4. The villain built giant obsidian walls, then dug away with a diamond pickaxe.
5. The villain dug straight down, then flew off with elytra wings.
6. The villain spawned scary creepers, then flew off with elytra wings.
7. The villain dug straight down, then shot arrows with an enchanted bow.
8. The villain placed burning lava blocks, then shot arrows with an enchanted bow.
9. The villain built giant obsidian walls, then flew off with elytra wings.
10. The villain spawned scary creepers, then escaped with a netherite sword.
11. The villain brewed nasty poison, then teleported away using ender pearls.
12. The villain spawned scary creepers, then shot arrows with an enchanted bow.

# Answer Key

## The Golden Apple Heist

### Culprit: Sapnap

digging straight down · enchanted bow · holding torch in left hand · iron helmet · splashed with water

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

### Clue 1 (Place value): "THE VILLAIN DOES NOT USE ELYTRA WINGS"

What is the value of the 2 in 2,778? = 2000 (T) · What is the value of the 4 in 5,463? = 400 (A) · What is the value of the 4 in 4,018? = 4000 (I) · What is the value of the 9 in 926? = 900 (W) · What is the value of the 1 in 6,178? = 100 (E) · What is the value of the 3 in 8,325? = 300 (H) · What is the value of the 1 in 610? = 10 (V) · What is the value of the 6 in 6,222? = 6000 (O) · What is the value of the 5 in 6,457? = 50 (D) · What is the value of the 3 in 538? = 30 (G) · What is the value of the 5 in 4,598? = 500 (L) · What is the value of the 7 in 57,636? = 7000 (Y) · What is the value of the 3 in 73,590? = 3000 (S) · What is the value of the 8 in 839? = 800 (R) · What is the value of the 8 in 685? = 80 (U) · What is the value of the 9 in 5,391? = 90 (N)

### Clue 2 (Addition): "THE VISITOR PLACED TORCHES ON THE LEFT WALL"

$116 + 89 = 205$  (T) ·  $232 + 186 = 418$  (D) ·  $247 + 132 = 379$  (N) ·  $202 + 119 = 321$  (V) ·  $499 + 420 = 919$  (L) ·  $133 + 241 = 374$  (A) ·  $365 + 551 = 916$  (S) ·  $357 + 622 = 979$  (H) ·  $479 + 463 = 942$  (P) ·  $213 + 225 = 438$  (C) ·  $488 + 442 = 930$  (I) ·  $657 + 286 = 943$  (O) ·  $444 + 198 = 642$  (E) ·  $253 + 501 = 754$  (R) ·  $296 + 357 = 653$  (W) ·  $132 + 206 = 338$  (F)

### Clue 3 (Rounding): "THE THIEF RAN AWAY WHEN WATER FLOWED"

Round 200 to the nearest hundred = 200 (T) · Round 24 to the nearest ten = 20 (Y) · Round 4,031 to the nearest thousand = 4000 (R) · Round 4,696 to the nearest thousand = 5000 (N) · Round 70 to the nearest ten = 70 (D) · Round 80 to the nearest ten = 80 (W) · Round 3,055 to the nearest thousand = 3000 (L) · Round 30 to the nearest ten = 30 (E) · Round 54 to the nearest ten = 50 (F) · Round 621 to the nearest hundred = 600 (O) · Round 507 to the nearest hundred = 500 (A) · Round 2,076 to the nearest thousand = 2000 (H) · Round 42 to the nearest ten = 40 (I)

### Clue 4 (Subtraction): "AN IRON HELMET SCRATCHED THE CEILING"

$1007 - 108 = 899$  (A) ·  $569 - 25 = 544$  (I) ·  $339 - 234 = 105$  (E) ·  $1068 - 227 = 841$  (O) ·  $1108 - 400 = 708$  (G) ·  $1143 - 257 = 886$  (H) ·  $798 - 293 = 505$  (C) ·  $566 - 310 = 256$  (L) ·  $255 - 81 = 174$  (D) ·  $462 - 159 = 303$  (N) ·  $335 - 47 = 288$  (S) ·  $454 - 218 = 236$  (T) ·  $1037 - 210 = 827$  (R) ·  $277 - 2 = 275$  (M)

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

$108 \div 9 = 12$  ·  $27 \div 9 = 3$  ·  $88 \div 11 = 8$  ·  $8 \div 2 = 4$  ·  $99 \div 9 = 11$  ·  $3 \div 3 = 1$  ·  $45 \div 5 = 9$  ·  $5 \div 1 = 5$  ·  $10 \div 5 = 2$  ·  $48 \div 8 = 6$  ·  $40 \div 4 = 10$