



# The Spawn Castle Heist

Grade 4 math · Multiplication, Addition, Rounding, Subtraction, Division · Reading level grades 5-6

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

The legendary Ender Dragon Egg has been snatched from the pedestal at the center of the Spawn Castle! The server admin logged on to find the item frame shattered and a mysterious trail of blocks leading into the dark forest. We need to identify the rogue player before they log off and escape with our ultimate trophy.

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 griefer is** \_\_\_\_\_

## Possible suspects

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

| NAME            | FAVORITE TOOL     | IN-GAME PET | SHIELD PLACEMENT  | SKIN HEADWEAR | FEAR          |
|-----------------|-------------------|-------------|-------------------|---------------|---------------|
| CaptainSparklez | Diamond Pickaxe   | Baby Zombie | Right-hand Shield | Slime Hat     | Lava Pools    |
| Awesamdude      | Golden Apple      | Baby Zombie | Right-hand Shield | Creeper Hood  | Lava Pools    |
| Mumbo           | Diamond Pickaxe   | Strider     | Right-hand Shield | Slime Hat     | Lava Pools    |
| Karl            | Diamond Pickaxe   | Baby Zombie | Left-hand Shield  | Creeper Hood  | Water Buckets |
| Skeppy          | Golden Apple      | Strider     | Left-hand Shield  | Feather Cap   | Water Buckets |
| George          | Netherite Sword   | Ocelot      | Left-hand Shield  | Creeper Hood  | Cats          |
| Quackity        | Redstone Repeater | Baby Zombie | Left-hand Shield  | Slime Hat     | Lava Pools    |
| Tubbo           | Golden Apple      | Tamed Wolf  | Left-hand Shield  | Creeper Hood  | Lava Pools    |
| Stampy          | Golden Apple      | Baby Zombie | Right-hand Shield | Feather Cap   | Lava Pools    |
| Punz            | Diamond Pickaxe   | Allay       | Right-hand Shield | Slime Hat     | Lava Pools    |
| DanTDM          | Diamond Pickaxe   | Tamed Wolf  | Left-hand Shield  | Creeper Hood  | Water Buckets |
| BadBoyHalo      | Enchanted Bow     | Tamed Wolf  | Right-hand Shield | Creeper Hood  | Water Buckets |
| Philza          | Diamond Pickaxe   | Allay       | Left-hand Shield  | Creeper Hood  | Water Buckets |
| Techno          | Enchanted Bow     | Baby Zombie | Right-hand Shield | Slime Hat     | Water Buckets |
| Antfrost        | Diamond Pickaxe   | Tamed Wolf  | Left-hand Shield  | Creeper Hood  | Lava Pools    |
| Steve           | Golden Apple      | Allay       | Left-hand Shield  | Creeper Hood  | Water Buckets |
| Dream           | Golden Apple      | Ocelot      | Left-hand Shield  | Slime Hat     | Lava Pools    |
| Grian           | Netherite Sword   | Baby Zombie | Right-hand Shield | Slime Hat     | Lava Pools    |
| Sapnap          | Enchanted Bow     | Strider     | Left-hand Shield  | Creeper Hood  | Water Buckets |
| Purpled         | Enchanted Bow     | Strider     | Right-hand Shield | Slime Hat     | Water Buckets |
| Tommy           | Golden Apple      | Allay       | Left-hand Shield  | Slime Hat     | Lava Pools    |

**CLUE 1**
**Multiplication facts (1-12)**

The griever left stacks of blocks behind. We count several chests, each holding exactly nine stacks of diamonds. Let us multiply to find the total.

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

|              |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |              |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|--------------|
| <div>T</div> |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    | <div>T</div> |
| 27           | 11 | 72 | 7  | 4  | 96 | 72 | 63 | 72 | 4  | 66 | 24 | 72 | 132 | 15 | 24 | 27 |              |
|              |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |              |
| 24           | 40 | 15 | 90 | 22 | 90 | 22 | 99 | 25 | 24 | 18 | 22 | 96 | 72  |    |    |    |              |

$3 \times 9 = \square \rightarrow \text{[T]}$

$5 \times 5 = \square \rightarrow \text{[Z]}$

$10 \times 9 = \square \rightarrow \text{[A]}$

$2 \times 11 = \square \rightarrow \text{[B]}$

$1 \times 4 = \square \rightarrow \text{[R]}$

$9 \times 8 = \square \rightarrow \text{[E]}$

$12 \times 8 = \square \rightarrow \text{[I]}$

$9 \times 2 = \square \rightarrow \text{[M]}$

$6 \times 11 = \square \rightarrow \text{[D]}$

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

$11 \times 9 = \square \rightarrow \text{[Y]}$

$1 \times 7 = \square \rightarrow \text{[G]}$

$4 \times 6 = \square \rightarrow \text{[O]}$

$4 \times 10 = \square \rightarrow \text{[W]}$

$7 \times 9 = \square \rightarrow \text{[F]}$

$11 \times 1 = \square \rightarrow \text{[H]}$

$12 \times 11 = \square \rightarrow \text{[S]}$

Scratch space:

## CLUE 2 Addition

To repair the damaged cobblestone generator, the server admin must combine the broken blocks from the north wall with those from the south wall.

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

|                              |                             |                             |                             |                             |                             |                             |                             |                              |                              |                             |                             |                             |                             |                              |                             |                             |                             |                             |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <div>T</div> <div>2804</div> | <div></div> <div>7688</div> | <div></div> <div>3314</div> | <div></div> <div>5615</div> | <div></div> <div>5885</div> | <div></div> <div>5615</div> | <div></div> <div>5488</div> | <div></div> <div>3314</div> | <div></div> <div>8738</div>  | <div>T</div> <div>2804</div> | <div></div> <div>7688</div> | <div></div> <div>3314</div> | <div></div> <div>2621</div> | <div></div> <div>4974</div> | <div>T</div> <div>2804</div> | <div></div> <div>7688</div> | <div></div> <div>3314</div> |                             |                             |
| <div></div> <div>5615</div>  | <div></div> <div>7688</div> | <div></div> <div>7075</div> | <div></div> <div>3314</div> | <div></div> <div>2621</div> | <div></div> <div>4974</div> | <div></div> <div>7075</div> | <div></div> <div>6019</div> | <div>T</div> <div>2804</div> | <div></div> <div>7688</div>  | <div></div> <div>3314</div> | <div></div> <div>2621</div> | <div></div> <div>3314</div> | <div></div> <div>5047</div> | <div>T</div> <div>2804</div> | <div></div> <div>7688</div> | <div></div> <div>4301</div> | <div></div> <div>6019</div> | <div></div> <div>4974</div> |

$1791 + 1013 = \square \rightarrow \text{T}$

$2616 + 4459 = \square \rightarrow \text{I}$

$1279 + 1342 = \square \rightarrow \text{L}$

$2852 + 2122 = \square \rightarrow \text{D}$

$1502 + 2799 = \square \rightarrow \text{A}$

$2841 + 2206 = \square \rightarrow \text{F}$

$3750 + 2269 = \square \rightarrow \text{N}$

$4719 + 4019 = \square \rightarrow \text{C}$

$1664 + 1650 = \square \rightarrow \text{E}$

$1949 + 3936 = \square \rightarrow \text{U}$

$2651 + 5037 = \square \rightarrow \text{H}$

$3875 + 1740 = \square \rightarrow \text{S}$

$1934 + 3554 = \square \rightarrow \text{P}$

Scratch space:

### CLUE 3 Rounding

Our coordinates tracker is glitched by a redstone signal. It only displays the approximate location, so we have to round the decimal coordinates to the nearest whole block.

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

|     |     |    |     |     |     |      |     |     |     |     |    |      |     |     |      |      |     |    |  |  |
|-----|-----|----|-----|-----|-----|------|-----|-----|-----|-----|----|------|-----|-----|------|------|-----|----|--|--|
| T   |     |    | T   |     |     |      |     | T   |     |     |    |      |     |     |      |      |     |    |  |  |
| 370 | 130 | 30 | 370 | 290 | 70  | 1700 | 30  | 370 | 900 | 170 | 30 | 9000 | 430 | 130 | 30   | 7000 |     |    |  |  |
| T   |     |    |     |     |     |      |     |     | T   |     |    |      |     |     |      |      | T   |    |  |  |
| 370 | 130 | 30 | 230 | 20  | 290 | 430  | 430 | 290 | 370 | 30  | 70 | 2900 | 90  | 300 | 2000 | 30   | 370 | 20 |  |  |

Round 371 to the nearest ten  → **T**

Round 170 to the nearest ten  → **L**

Round 304 to the nearest hundred  → **C**

Round 1,685 to the nearest hundred  → **G**

Round 227 to the nearest ten  → **Y**

Round 9,471 to the nearest thousand  → **D**

Round 27 to the nearest ten  → **E**

Round 2,875 to the nearest hundred  → **B**

Round 20 to the nearest ten  → **S**

Round 427 to the nearest ten  → **W**

Round 126 to the nearest ten  → **H**

Round 287 to the nearest ten  → **A**

Round 6,575 to the nearest thousand  → **N**

Round 2,376 to the nearest thousand  → **K**

Round 69 to the nearest ten  → **R**

Round 93 to the nearest ten  → **U**

Round 925 to the nearest hundred  → **F**

Scratch space:

## CLUE 4

## Subtraction

The griever depleted the durability of our enchanted diamond armor. We need to calculate how much protection remains after subtracting the damage points.

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

|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>W</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8110     | 2148 | 3869 | 5967 | 5477 | 2706 | 5637 | 2862 | 8964 | 3003 | 2148 | 2148 | 2706 |      |      |
|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8803     | 3003 | 2148 | 2148 | 8981 | 2148 | 3003 | 2278 | 5967 | 5967 | 5637 | 2051 | 2148 | 3869 | 4868 |
|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6645     | 2148 | 2278 | 8703 | 2706 | 5637 |      |      |      |      |      |      |      |      |      |

$12181 - 4071 = \square \rightarrow \boxed{\text{W}}$

$9708 - 4840 = \square \rightarrow \boxed{\text{T}}$

$5679 - 3401 = \square \rightarrow \boxed{\text{H}}$

$6195 - 228 = \square \rightarrow \boxed{\text{O}}$

$9330 - 627 = \square \rightarrow \boxed{\text{I}}$

$10834 - 1870 = \square \rightarrow \boxed{\text{G}}$

$6645 - 4594 = \square \rightarrow \boxed{\text{L}}$

$11793 - 2990 = \square \rightarrow \boxed{\text{C}}$

$4736 - 1733 = \square \rightarrow \boxed{\text{R}}$

$3619 - 1471 = \square \rightarrow \boxed{\text{E}}$

$10494 - 1513 = \square \rightarrow \boxed{\text{P}}$

$5804 - 3098 = \square \rightarrow \boxed{\text{N}}$

$9769 - 3124 = \square \rightarrow \boxed{\text{B}}$

$3116 - 254 = \square \rightarrow \boxed{\text{A}}$

$4731 - 862 = \square \rightarrow \boxed{\text{F}}$

$9205 - 3728 = \square \rightarrow \boxed{\text{U}}$

$7849 - 2212 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

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

We salvaged a chest of gold ingots left behind. If we divide the loot evenly among our online party members, we can trace where the odd leftovers went.

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:**

$84 \div 7 = \boxed{\phantom{00}}$

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

$44 \div 4 = \boxed{\phantom{00}}$

$44 \div 11 = \boxed{\phantom{00}}$

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

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

$40 \div 5 = \boxed{\phantom{00}}$

$10 \div 1 = \boxed{\phantom{00}}$

$24 \div 4 = \boxed{\phantom{00}}$

$8 \div 4 = \boxed{\phantom{00}}$

$49 \div 7 = \boxed{\phantom{00}}$

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

1. The villain disabled the hidden redstone traps, then fled on a fast skeleton horse.
2. The villain blew up the stone bridge with TNT, then fled on a fast skeleton horse.
3. The villain bridged across the deep lava moat, then escaped into a purple Nether portal.
4. The villain bridged across the deep lava moat, then hit the ground running with swiftiness boots.
5. The villain bridged across the deep lava moat, then glided off using an elytra.
6. The villain blew up the stone bridge with TNT, then hit the ground running with swiftiness boots.
7. The villain mined through the obsidian wall, then fled on a fast skeleton horse.
8. The villain bridged across the deep lava moat, then teleported away using an ender pearl.
9. The villain mined through the obsidian wall, then glided off using an elytra.
10. The villain blew up the stone bridge with TNT, then escaped into a purple Nether portal.
11. The villain disabled the hidden redstone traps, then hit the ground running with swiftiness boots.
12. The villain tunnelled directly under the castle spawn, then glided off using an elytra.

# Answer Key

## The Spawn Castle Heist

### Culprit: DanTDM

Diamond Pickaxe · Tamed Wolf · Left-hand Shield · Creeper Hood · Water Buckets

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

#### Clue 1 (Multiplication facts (1-12)): "THE GRIEFER DOES NOT OWN A BABY ZOMBIE"

$3 \times 9 = 27$  (T) ·  $5 \times 5 = 25$  (Z) ·  $10 \times 9 = 90$  (A) ·  $2 \times 11 = 22$  (B) ·  $1 \times 4 = 4$  (R) ·  $9 \times 8 = 72$  (E) ·  $12 \times 8 = 96$  (I) ·  $9 \times 2 = 18$  (M) ·  $6 \times 11 = 66$  (D) ·  $5 \times 3 = 15$  (N) ·  $11 \times 9 = 99$  (Y) ·  $1 \times 7 = 7$  (G) ·  $4 \times 6 = 24$  (O) ·  $4 \times 10 = 40$  (W) ·  $7 \times 9 = 63$  (F) ·  $11 \times 1 = 11$  (H) ·  $12 \times 11 = 132$  (S)

#### Clue 2 (Addition): "THE SUSPECT HELD THE SHIELD IN THE LEFT HAND"

$1791 + 1013 = 2804$  (T) ·  $2616 + 4459 = 7075$  (I) ·  $1279 + 1342 = 2621$  (L) ·  $2852 + 2122 = 4974$  (D) ·  $1502 + 2799 = 4301$  (A) ·  $2841 + 2206 = 5047$  (F) ·  $3750 + 2269 = 6019$  (N) ·  $4719 + 4019 = 8738$  (C) ·  $1664 + 1650 = 3314$  (E) ·  $1949 + 3936 = 5885$  (U) ·  $2651 + 5037 = 7688$  (H) ·  $3875 + 1740 = 5615$  (S) ·  $1934 + 3554 = 5488$  (P)

#### Clue 3 (Rounding): "THE TARGET FLED WHEN THEY SAW WATER BUCKETS"

Round 371 to the nearest ten = 370 (T) · Round 170 to the nearest ten = 170 (L) · Round 304 to the nearest hundred = 300 (C) · Round 1,685 to the nearest hundred = 1700 (G) · Round 227 to the nearest ten = 230 (Y) · Round 9,471 to the nearest thousand = 9000 (D) · Round 27 to the nearest ten = 30 (E) · Round 2,875 to the nearest hundred = 2900 (B) · Round 20 to the nearest ten = 20 (S) · Round 427 to the nearest ten = 430 (W) · Round 126 to the nearest ten = 130 (H) · Round 287 to the nearest ten = 290 (A) · Round 6,575 to the nearest thousand = 7000 (N) · Round 2,376 to the nearest thousand = 2000 (K) · Round 69 to the nearest ten = 70 (R) · Round 93 to the nearest ten = 90 (U) · Round 925 to the nearest hundred = 900 (F)

#### Clue 4 (Subtraction): "WE FOUND A GREEN CREEPER HOOD LEFT BEHIND"

$12181 - 4071 = 8110$  (W) ·  $9708 - 4840 = 4868$  (T) ·  $5679 - 3401 = 2278$  (H) ·  $6195 - 228 = 5967$  (O) ·  $9330 - 627 = 8703$  (I) ·  $10834 - 1870 = 8964$  (G) ·  $6645 - 4594 = 2051$  (L) ·  $11793 - 2990 = 8803$  (C) ·  $4736 - 1733 = 3003$  (R) ·  $3619 - 1471 = 2148$  (E) ·  $10494 - 1513 = 8981$  (P) ·  $5804 - 3098 = 2706$  (N) ·  $9769 - 3124 = 6645$  (B) ·  $3116 - 254 = 2862$  (A) ·  $4731 - 862 = 3869$  (F) ·  $9205 - 3728 = 5477$  (U) ·  $7849 - 2212 = 5637$  (D)

#### Clue 5 (Division facts (1-12)): surviving statement is box 3 → DanTDM

$84 \div 7 = 12$  ·  $50 \div 10 = 5$  ·  $44 \div 4 = 11$  ·  $44 \div 11 = 4$  ·  $27 \div 3 = 9$  ·  $6 \div 6 = 1$  ·  $40 \div 5 = 8$  ·  $10 \div 1 = 10$  ·  $24 \div 4 = 6$  ·  $8 \div 4 = 2$  ·  $49 \div 7 = 7$