



# The Case of the Ruined Spawn

Grade 2 math · Addition, Place value, Subtraction, Skip counting, Missing addends · Reading level grades 1-2

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

Someone broke the giant gold statue at the spawn point of the server! They left a trail of blocky clues. We need to find the Griefing Phantom before they ruin the entire map!

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 Griefing Phantom is** \_\_\_\_\_

## Possible suspects

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

| NAME        | MAIN TOOL        | PET MOB        | MAP HAND       | HELMET TYPE    | WEAKNESS ITEM       |
|-------------|------------------|----------------|----------------|----------------|---------------------|
| DanTDM      | TNT Detonator    | Tamed Parrot   | Left Hand Map  | Gold Helmet    | Splash Water Bottle |
| Sparklez    | Golden Axe       | Tamed Wolf     | Left Hand Map  | Gold Helmet    | Splash Water Bottle |
| Gemini      | TNT Detonator    | Rode a Pig     | Right Hand Map | Diamond Helmet | Bucket of Milk      |
| Jimmy       | Flint and Steel  | Rode a Pig     | Left Hand Map  | Gold Helmet    | Golden Apple        |
| BdubleO     | Golden Axe       | Tamed Wolf     | Right Hand Map | Diamond Helmet | Bucket of Milk      |
| Scar        | TNT Detonator    | Tamed Parrot   | Left Hand Map  | Iron Helmet    | Splash Water Bottle |
| Docm        | TNT Detonator    | Rode a Pig     | Left Hand Map  | Iron Helmet    | Splash Water Bottle |
| Tubbo       | Flint and Steel  | Tamed Parrot   | Left Hand Map  | Iron Helmet    | Bucket of Milk      |
| Joel        | Diamond Pickaxe  | Rode a Pig     | Right Hand Map | Diamond Helmet | Bucket of Milk      |
| Tango       | TNT Detonator    | Tamed Wolf     | Right Hand Map | Iron Helmet    | Bucket of Milk      |
| Mumbo       | Netherite Shovel | Tamed Wolf     | Left Hand Map  | Gold Helmet    | Splash Water Bottle |
| Lizzie      | Netherite Shovel | Rode a Strider | Left Hand Map  | Iron Helmet    | Splash Water Bottle |
| Pearlescent | Golden Axe       | Rode a Strider | Left Hand Map  | Iron Helmet    | Bucket of Milk      |
| Grian       | Netherite Shovel | Rode a Strider | Left Hand Map  | Gold Helmet    | Golden Apple        |
| Alex        | Diamond Pickaxe  | Pet Creeper    | Left Hand Map  | Iron Helmet    | Splash Water Bottle |
| Notch       | Flint and Steel  | Tamed Parrot   | Left Hand Map  | Iron Helmet    | Golden Apple        |
| Stampy      | Netherite Shovel | Rode a Pig     | Left Hand Map  | Iron Helmet    | Bucket of Milk      |
| BadBoyHalo  | Diamond Pickaxe  | Rode a Strider | Left Hand Map  | Iron Helmet    | Splash Water Bottle |
| Jeb         | Diamond Pickaxe  | Pet Creeper    | Left Hand Map  | Gold Helmet    | Golden Apple        |
| Skeppy      | Flint and Steel  | Tamed Parrot   | Right Hand Map | Iron Helmet    | Bucket of Milk      |
| Steve       | Golden Axe       | Tamed Parrot   | Right Hand Map | Iron Helmet    | Splash Water Bottle |

## CLUE 1 Addition

We find two piles of redstone dust. Add them up to open the chest.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| T  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T  |
| 87 | 85 | 60 | 72 | 21 | 59 | 60 | 30 | 60 | 21 | 28 | 59 | 28 | 39 | 40 | 87 |

  

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    |
| 21 | 59 | 28 | 60 | 41 | 84 | 59 | 72 |

|                                           |                                           |                                           |
|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| 59 + 28 = <input type="text"/> → <b>T</b> | 17 + 11 = <input type="text"/> → <b>D</b> | 42 + 17 = <input type="text"/> → <b>I</b> |
| 27 + 33 = <input type="text"/> → <b>E</b> | 32 + 53 = <input type="text"/> → <b>H</b> | 27 + 13 = <input type="text"/> → <b>O</b> |
| 10 + 11 = <input type="text"/> → <b>R</b> | 32 + 40 = <input type="text"/> → <b>G</b> | 12 + 27 = <input type="text"/> → <b>N</b> |
| 17 + 24 = <input type="text"/> → <b>A</b> | 14 + 16 = <input type="text"/> → <b>F</b> | 31 + 53 = <input type="text"/> → <b>P</b> |

Scratch space:

## Place value

A wooden sign has a code. Look at the tens and ones to read it.

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

A number line from 0 to 100 with increments of 10. The number 67 is highlighted in orange. The number line is divided into three sections: 0-30, 30-60, and 60-90. The numbers 67, 75, and 34 are marked on the line.

What number has 6 tens and 7 ones?

A diagram showing a rectangular box on the left, followed by a right-pointing arrow, and then a square box on the right containing the letter 'T'.

What number has 6 tens and 2 ones?

What number has 8 tens and 2 ones?

→ **D**

What number has 5 tens and 6 ones?

A diagram showing a transformation. On the left is a simple rectangular box. An arrow points from this box to another rectangular box on the right. Inside the second box is the capital letter 'L'.

What number has 7 tens and 2 ones?

→ **S**

What number has 9 tens and 4 ones?

→ **W**

What number has 5 tens and 5 ones?

A diagram consisting of a rectangular box on the left, followed by a right-pointing arrow, and then another rectangular box on the right containing the letter 'P'.

What number has 7 tens and 5 ones?

What number has 2 tens and 9 ones?

A diagram showing a box with a question mark pointing to a box with the letter 'I'.

What number has 3 tens and 4 ones?



What number has 7 tens and 6 ones?

A diagram consisting of a rectangular box on the left, followed by a right-pointing arrow, and then another rectangular box on the right containing the letter 'A'.

What number has 4 tens and 1 one?

→ **F**

What number has 8 tens and 3 ones?

Scratch space:

## CLUE 3

## Subtraction

We had a big stack of torches but some burned out. Subtract to see what is left.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| T  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 34 | 74 | 36 | 57 | 56 | 32 | 16 | 32 | 25 | 32 | 57 | 23 | 56 | 71 | 17 |  |

  

|    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    | T  |    |    |
| 75 | 51 | 70 | 32 | 75 | 74 | 25 | 32 | 34 | 36 | 56 |

$50 - 16 = \square \rightarrow \boxed{\text{T}}$

$24 - 8 = \square \rightarrow \boxed{\text{N}}$

$103 - 29 = \square \rightarrow \boxed{\text{H}}$

$55 - 38 = \square \rightarrow \boxed{\text{M}}$

$108 - 37 = \square \rightarrow \boxed{\text{O}}$

$86 - 16 = \square \rightarrow \boxed{\text{L}}$

$95 - 38 = \square \rightarrow \boxed{\text{Y}}$

$60 - 37 = \square \rightarrow \boxed{\text{F}}$

$47 - 15 = \square \rightarrow \boxed{\text{A}}$

$64 - 13 = \square \rightarrow \boxed{\text{P}}$

$41 - 5 = \square \rightarrow \boxed{\text{E}}$

$60 - 35 = \square \rightarrow \boxed{\text{W}}$

$76 - 20 = \square \rightarrow \boxed{\text{R}}$

$97 - 22 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

**CLUE 4** Skip counting

To cross the deep blue lake we must jump on every second block.

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

|     |     |    |    |     |    |    |    |    |     |   |    |    |    |    |
|-----|-----|----|----|-----|----|----|----|----|-----|---|----|----|----|----|
| W   |     |    |    |     |    |    |    |    |     |   |    |    |    |    |
| 130 | 140 | 26 | 39 | 65  | 10 | 27 | 14 | 22 | 140 | 9 | 55 | 22 | 39 | 10 |
|     |     |    |    |     |    |    |    |    |     |   |    |    |    |    |
| 26  | 45  | 16 | 6  | 140 | 33 |    |    |    |     |   |    |    |    |    |

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, \_\_, 140, 150  → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, \_\_, 16, 18  → **G**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, \_\_, 28, 30  → **F**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, \_\_, 30, 33  → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, \_\_, 12, 14  → **N**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, \_\_, 18, 20  → **A**

Skip-count by 2s. Fill the blank: 2, 4, \_\_, 8, 10  → **K**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, \_\_, 150, 160  → **E**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, \_\_, 50, 55  → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, \_\_, 42, 45  → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, \_\_, 24, 26  → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, \_\_, 60, 65  → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, \_\_, 36, 39  → **S**

Skip-count by 3s. Fill the blank: 3, 6, \_\_, 12, 15  → **Y**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, \_\_, 70, 75  → **U**

Scratch space:

**CLUE 5****Missing addends - the last clue**

The furnace needs nine pieces of coal but we only have some. How many more do we need

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:**

$10 + \underline{\quad} = 17$

$4 + \underline{\quad} = 14$

$6 + \underline{\quad} = 12$

$6 + \underline{\quad} = 8$

$3 + \underline{\quad} = 7$

$10 + \underline{\quad} = 11$

$5 + \underline{\quad} = 16$

$2 + \underline{\quad} = 7$

$7 + \underline{\quad} = 16$

$6 + \underline{\quad} = 18$

$1 + \underline{\quad} = 9$

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

1. The villain chopped down the giant oak tree, then fed bones to a wolf.
2. The villain mined a deep tunnel, then fed bones to a wolf.
3. The villain mined a deep tunnel, then walked across the hot lava.
4. The villain blasted a hole in the wall, then crept away with a creeper.
5. The villain dug up the grass path, then saddled up a pig.
6. The villain mined a deep tunnel, then crept away with a creeper.
7. The villain blasted a hole in the wall, then listened to a red parrot.
8. The villain dug up the grass path, then listened to a red parrot.
9. The villain mined a deep tunnel, then saddled up a pig.
10. The villain dug up the grass path, then walked across the hot lava.
11. The villain dug up the grass path, then crept away with a creeper.
12. The villain sparked a tiny fire, then listened to a red parrot.

# Answer Key

## The Case of the Ruined Spawn

### Culprit: BadBoyHalo

Diamond Pickaxe · Rode a Strider · Left Hand Map · Iron Helmet · Splash Water Bottle

Trail: Start 21 → Clue 1 16 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

#### Clue 1 (Addition): "THE GRIEFER DID NOT RIDE A PIG"

$59 + 28 = 87$  (T) ·  $17 + 11 = 28$  (D) ·  $42 + 17 = 59$  (I) ·  $27 + 33 = 60$  (E) ·  $32 + 53 = 85$  (H) ·  $27 + 13 = 40$  (O) ·  $10 + 11 = 21$  (R) ·  $32 + 40 = 72$  (G) ·  $12 + 27 = 39$  (N) ·  $17 + 24 = 41$  (A) ·  $14 + 16 = 30$  (F) ·  $31 + 53 = 84$  (P)

#### Clue 2 (Place value): "THE MAP WAS HELD IN THE LEFT HAND"

What number has 6 tens and 7 ones? = 67 (T) · What number has 6 tens and 2 ones? = 62 (N) · What number has 8 tens and 2 ones? = 82 (D) · What number has 5 tens and 6 ones? = 56 (L) · What number has 7 tens and 2 ones? = 72 (S) · What number has 9 tens and 4 ones? = 94 (W) · What number has 5 tens and 5 ones? = 55 (P) · What number has 7 tens and 5 ones? = 75 (H) · What number has 2 tens and 9 ones? = 29 (I) · What number has 3 tens and 4 ones? = 34 (E) · What number has 7 tens and 6 ones? = 76 (A) · What number has 4 tens and 1 one? = 41 (F) · What number has 8 tens and 3 ones? = 83 (M)

#### Clue 3 (Subtraction): "THEY RAN AWAY FROM SPLASH WATER"

$50 - 16 = 34$  (T) ·  $24 - 8 = 16$  (N) ·  $103 - 29 = 74$  (H) ·  $55 - 38 = 17$  (M) ·  $108 - 37 = 71$  (O) ·  $86 - 16 = 70$  (L) ·  $95 - 38 = 57$  (Y) ·  $60 - 37 = 23$  (F) ·  $47 - 15 = 32$  (A) ·  $64 - 13 = 51$  (P) ·  $41 - 5 = 36$  (E) ·  $60 - 35 = 25$  (W) ·  $76 - 20 = 56$  (R) ·  $97 - 22 = 75$  (S)

#### Clue 4 (Skip counting): "WE FOUND GREY IRON FLAKES"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, \_\_, 140, 150 = 130 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, \_\_, 16, 18 = 14 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, \_\_, 28, 30 = 26 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, \_\_, 30, 33 = 27 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, \_\_, 12, 14 = 10 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, \_\_, 18, 20 = 16 (A) · Skip-count by 2s. Fill the blank: 2, 4, \_\_, 8, 10 = 6 (K) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, \_\_, 150, 160 = 140 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, \_\_, 50, 55 = 45 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, \_\_, 42, 45 = 39 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, \_\_, 24, 26 = 22 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, \_\_, 60, 65 = 55 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, \_\_, 36, 39 = 33 (S) · Skip-count by 3s. Fill the blank: 3, 6, \_\_, 12, 15 = 9 (Y) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, \_\_, 70, 75 = 65 (U)

#### Clue 5 (Missing addends): surviving statement is box 3 → BadBoyHalo

$10 + \underline{\quad} = 17 = 7$  ·  $4 + \underline{\quad} = 14 = 10$  ·  $6 + \underline{\quad} = 12 = 6$  ·  $6 + \underline{\quad} = 8 = 2$  ·  $3 + \underline{\quad} = 7 = 4$  ·  $10 + \underline{\quad} = 11 = 1$  ·  $5 + \underline{\quad} = 16 = 11$  ·  $2 + \underline{\quad} = 7 = 5$  ·  $7 + \underline{\quad} = 16 = 9$  ·  $6 + \underline{\quad} = 18 = 12$  ·  $1 + \underline{\quad} = 9 = 8$