The Mystery of the Shattered Monument

Grade 4 math · Addition, Subtraction, Skip counting, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone dismantled the giant emerald beacon on top of Blocky Peaks! The server logs left behind clues about the sneaky griefer who did it.

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	TOOL OF CHOICE	MOB COMPANION	HANDEDNESS	CHARACTER HAIR	ITEM FEAR
Logan	Netherite Axe	Loyal Axolotl	Right Handed	Wavy Brown Hair	Splash Potion
Casey	Redstone Launcher	Guarded Phantom	Left Handed	Sleek Black Hair	Water Bucket
River	Netherite Axe	Guarded Phantom	Left Handed	Sleek Black Hair	TNT Block
Alex	Crossbow	Loyal Axolotl	Left Handed	Wavy Brown Hair	TNT Block
Skyler	Redstone Launcher	Tamed Wolf	Right Handed	Sleek Black Hair	Water Bucket
Quinn	Enchanted Sword	Riding Strider	Left Handed	Sleek Black Hair	Water Bucket
Rowan	Diamond Pickaxe	Guarded Phantom	Right Handed	Wavy Brown Hair	Water Bucket
Jordan	Netherite Axe	Loyal Axolotl	Left Handed	Spiky Blue Hair	Water Bucket
Peyton	Enchanted Sword	Riding Strider	Left Handed	Sleek Black Hair	Splash Potion
Steve	Enchanted Sword	Guarded Phantom	Right Handed	Wavy Brown Hair	TNT Block
Sage	Redstone Launcher	Riding Strider	Left Handed	Spiky Blue Hair	TNT Block
Avery	Netherite Axe	Riding Strider	Right Handed	Spiky Blue Hair	TNT Block
Kai	Netherite Axe	Pet Parrot	Right Handed	Wavy Brown Hair	Splash Potion
Riley	Diamond Pickaxe	Guarded Phantom	Right Handed	Sleek Black Hair	Splash Potion
Sam	Netherite Axe	Riding Strider	Right Handed	Wavy Brown Hair	TNT Block
Taylor	Netherite Axe	Pet Parrot	Right Handed	Wavy Brown Hair	TNT Block
Dakota	Crossbow	Tamed Wolf	Right Handed	Wavy Brown Hair	TNT Block
Parker	Redstone Launcher	Pet Parrot	Right Handed	Sleek Black Hair	TNT Block
Finley	Enchanted Sword	Guarded Phantom	Right Handed	Spiky Blue Hair	Water Bucket
Morgan	Enchanted Sword	Tamed Wolf	Right Handed	Wavy Brown Hair	TNT Block
Reese	Crossbow	Riding Strider	Right Handed	Sleek Black Hair	TNT Block

make your own at mathcrackers.com

CLUE 1 Addition

Alex added up all the broken obsidian blocks from the two ruin piles to figure out how many were missing.

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



1208 + 2032 = ☐ → T

1147 + 1132 = ☐ → G

5289 + 4126 = ☐ → V

4043 + 3141 = ☐ → S

3822 + 4274 = ☐ → L

1333 + 1909 = ☐ → D

5978 + 2930 = ☐ → R

1589 + 3047 = ☐ → H

2679 + 5780 = ☐ → E

3554 + 5057 = ☐ → A

3828 + 6069 = ☐ → N

2583 + 5718 = ☐ → I

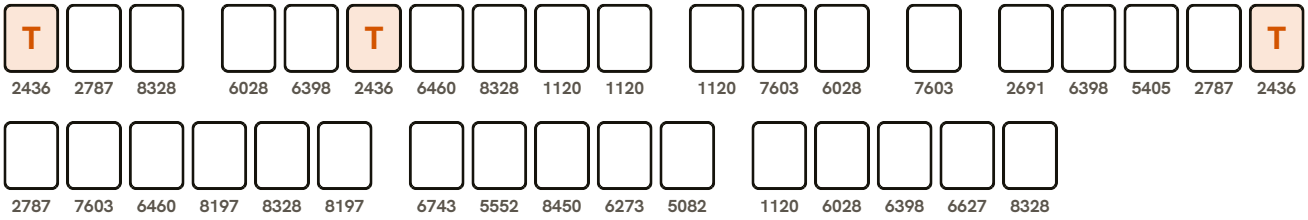
1858 + 1144 = ☐ → O

Scratch space:

CLUE 2 Subtraction

Steve checked the chest inventory before and after the griefing to see how many emerald blocks were taken.

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



5258 - 2822 = ☐ → T

12240 - 3790 = ☐ → O

5743 - 2956 = ☐ → H

10384 - 4832 = ☐ → L

10722 - 2394 = ☐ → E

10012 - 3552 = ☐ → N

9689 - 3291 = ☐ → I

9404 - 3999 = ☐ → G

2152 - 1032 = ☐ → S

8379 - 3297 = ☐ → K

6521 - 3830 = ☐ → R

11928 - 4325 = ☐ → A

10147 - 1950 = ☐ → D

8846 - 2818 = ☐ → W

6635 - 362 = ☐ → C

11241 - 4614 = ☐ → P

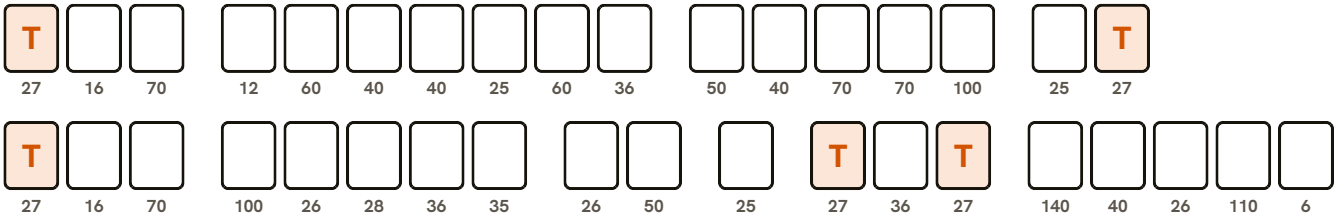
10867 - 4124 = ☐ → B

Scratch space:

CLUE 3 Skip counting

Sam counted the redstone repeaters along the hidden trail by skip counting in sets of five.

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



Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 ☐ → T

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 ☐ → H

Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 ☐ → V

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 ☐ → E

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 ☐ → D

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → N

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → B

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → U

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → S

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 ☐ → A

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 ☐ → L

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 ☐ → F

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 ☐ → I

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → C

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 ☐ → O

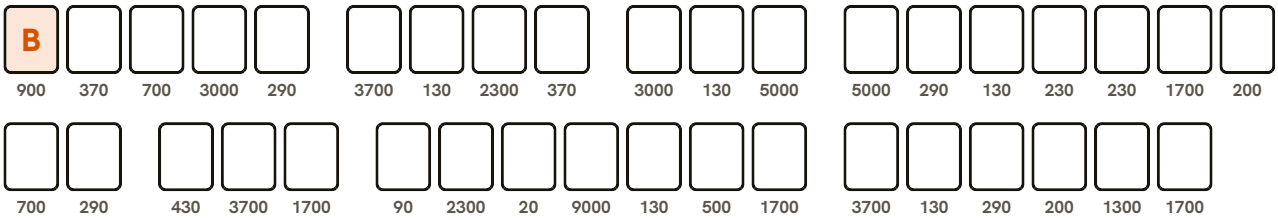
Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → K

Scratch space:

CLUE 4 Rounding

> The server radar map only shows approximate block coordinates, so the team rounded the distance to the nearest hundred.

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



Round 895 to the nearest hundred ☐ → **B**

Round 4,669 to the nearest thousand ☐ → **S**

Round 1,685 to the nearest hundred ☐ → **E**

Round 20 to the nearest ten ☐ → **C**

Round 2,317 to the nearest hundred ☐ → **I**

Round 3,651 to the nearest hundred ☐ → **H**

Round 229 to the nearest ten ☐ → **G**

Round 91 to the nearest ten ☐ → **P**

Round 9,448 to the nearest thousand ☐ → **K**

Round 3,246 to the nearest thousand ☐ → **W**

Round 374 to the nearest ten ☐ → **R**

Round 475 to the nearest hundred ☐ → **X**

Round 430 to the nearest ten ☐ → **T**

Round 694 to the nearest hundred ☐ → **O**

Round 1,345 to the nearest hundred ☐ → **L**

Round 292 to the nearest ten ☐ → **N**

Round 129 to the nearest ten ☐ → **A**

Round 168 to the nearest hundred ☐ → **D**

Scratch space:

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

> The guild split the recovered iron bars equally among four builder chests to share the clue loot.

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:

4 ÷ 4 = ☐	50 ÷ 10 = ☐	72 ÷ 12 = ☐	40 ÷ 4 = ☐	16 ÷ 8 = ☐
84 ÷ 12 = ☐	6 ÷ 2 = ☐	27 ÷ 3 = ☐	36 ÷ 3 = ☐	20 ÷ 5 = ☐
32 ÷ 4 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain mined out the central beacon core, then whistled for a wolf companion.
2. The villain chopped down the server portal gates, then soared beside a phantom guard.
3. The villain swung a blade to break the seal, then stepped off a riding strider.
4. The villain swung a blade to break the seal, then squawked to a parrot helper.
5. The villain chopped down the server portal gates, then squawked to a parrot helper.
6. The villain mined out the central beacon core, then soared beside a phantom guard.
7. The villain blasted open the diamond vault, then stepped off a riding strider.
8. The villain chopped down the server portal gates, then stepped off a riding strider.
9. The villain chopped down the server portal gates, then whistled for a wolf companion.
10. The villain mined out the central beacon core, then stepped off a riding strider.
11. The villain fired arrows into the alarm system, then whistled for a wolf companion.
12. The villain blasted open the diamond vault, then soared beside a phantom guard.

TEACHER / PARENT

Answer Key

The Mystery of the Shattered Monument

Culprit: Dakota

Crossbow · Tamed Wolf · Right Handed · Wavy Brown Hair · TNT Block

Trail: Start 21 → Clue 1 15 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE A RIDING STRIDER"

1208 + 2032 = 3240 (T) · 1147 + 1132 = 2279 (G) · 5289 + 4126 = 9415 (V) · 4043 + 3141 = 7184 (S) · 3822 + 4274 = 8096 (L) · 1333 + 1909 = 3242 (D) · 5978 + 2930 = 8908 (R) · 1589 + 3047 = 4636 (H) · 2679 + 5780 = 8459 (E) · 3554 + 5057 = 8611 (A) · 3828 + 6069 = 9897 (N) · 2583 + 5718 = 8301 (I) · 1858 + 1144 = 3002 (O)

Clue 2 (Subtraction): "THE WITNESS SAW A RIGHT HANDED BLOCK SWIPE"

5258 - 2822 = 2436 (T) · 12240 - 3790 = 8450 (O) · 5743 - 2956 = 2787 (H) · 10384 - 4832 = 5552 (L) · 10722 - 2394 = 8328 (E) · 10012 - 3552 = 6460 (N) · 9689 - 3291 = 6398 (I) · 9404 - 3999 = 5405 (G) · 2152 - 1032 = 1120 (S) · 8379 - 3297 = 5082 (K) · 6521 - 3830 = 2691 (R) · 11928 - 4325 = 7603 (A) · 10147 - 1950 = 8197 (D) · 8846 - 2818 = 6028 (W) · 6635 - 362 = 6273 (C) · 11241 - 4614 = 6627 (P) · 10867 - 4124 = 6743 (B)

Clue 3 (Skip counting): "THE VILLAIN FLEES AT THE SOUND OF A TNT BLOCK"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 = 12 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 = 70 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 = 40 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 = 50 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 = 60 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (O) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (K)

Clue 4 (Rounding): "BROWN HAIR WAS SNAGGED ON THE PICKAXE HANDLE"

Round 895 to the nearest hundred = 900 (B) · Round 4,669 to the nearest thousand = 5000 (S) · Round 1,685 to the nearest hundred = 1700 (E) · Round 20 to the nearest ten = 20 (C) · Round 2,317 to the nearest hundred = 2300 (I) · Round 3,651 to the nearest hundred = 3700 (H) · Round 229 to the nearest ten = 230 (G) · Round 91 to the nearest ten = 90 (P) · Round 9,448 to the nearest thousand = 9000 (K) · Round 3,246 to the nearest thousand = 3000 (W) · Round 374 to the nearest ten = 370 (R) · Round 475 to the nearest hundred = 500 (X) · Round 430 to the nearest ten = 430 (T) · Round 694 to the nearest hundred = 700 (O) · Round 1,345 to the nearest hundred = 1300 (L) · Round 292 to the nearest ten = 290 (N) · Round 129 to the nearest ten = 130 (A) · Round 168 to the nearest hundred = 200 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Dakota

4 ÷ 4 = 1 · 50 ÷ 10 = 5 · 72 ÷ 12 = 6 · 40 ÷ 4 = 10 · 16 ÷ 8 = 2 · 84 ÷ 12 = 7 · 6 ÷ 2 = 3 · 27 ÷ 3 = 9 · 36 ÷ 3 = 12 · 20 ÷ 5 = 4 · 32 ÷ 4 = 8