The Great Block Mystery

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

Detective: _____ **Date:** _____

The legendary Diamond Trophy has vanished from the spawn town temple! A sneaky Griefer broke the locks and left a trail of weird blocks behind. Use your crafting smarts to track them down and save the server!

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

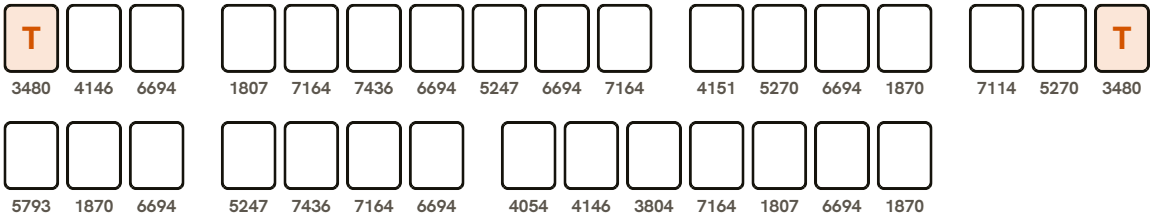
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	ESCAPE SKILL	INVASION TOOL	MINING STYLE	WORN HELMET	SERVER DEFENSE
Dream	Redstone Spark	Golden Apple	Left-handed swing	Turtle Shell	Splash Water
Preston	Potion Splash	TNT Blast	Left-handed swing	Turtle Shell	Bow Arrow
Bajan	Potion Splash	Diamond Sword	Right-handed swing	Gold Helmet	Splash Water
Aphmau	Redstone Spark	Netherite Axe	Right-handed swing	Gold Helmet	Splash Water
DanTDM	Redstone Spark	Diamond Sword	Left-handed swing	Turtle Shell	Iron Golem
Jerome	Ender Warp	TNT Blast	Right-handed swing	Gold Helmet	Bow Arrow
Stacy	Elytra Glide	Diamond Sword	Left-handed swing	Iron Helmet	Iron Golem
Joel	Elytra Glide	Fire Charge	Left-handed swing	Iron Helmet	Splash Water
Pat	Ender Warp	TNT Blast	Left-handed swing	Turtle Shell	Iron Golem
AntVenom	Potion Splash	Golden Apple	Left-handed swing	Iron Helmet	Splash Water
Jen	Redstone Spark	Golden Apple	Left-handed swing	Turtle Shell	Iron Golem
Grian	Redstone Spark	Golden Apple	Left-handed swing	Iron Helmet	Iron Golem
Gemini	Potion Splash	Diamond Sword	Left-handed swing	Turtle Shell	Splash Water
Stampy	Ender Warp	Golden Apple	Left-handed swing	Iron Helmet	Iron Golem
Ssundee	Elytra Glide	Golden Apple	Left-handed swing	Turtle Shell	Iron Golem
Mumbo	Potion Splash	Golden Apple	Right-handed swing	Gold Helmet	Iron Golem
George	Cobweb Trap	Netherite Axe	Right-handed swing	Gold Helmet	Splash Water
Pearl	Cobweb Trap	Diamond Sword	Right-handed swing	Iron Helmet	Iron Golem
Steve	Elytra Glide	Netherite Axe	Left-handed swing	Iron Helmet	Iron Golem
Alex	Elytra Glide	Fire Charge	Left-handed swing	Iron Helmet	Iron Golem
Sapnap	Elytra Glide	Diamond Sword	Right-handed swing	Gold Helmet	Iron Golem

CLUE 1 Subtraction

We found a chest of emeralds, but some are missing. Subtract the stolen blocks to find our first lead!

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



6408 - 2928 = ☐ → T	7093 - 399 = ☐ → E	9017 - 1853 = ☐ → R
7138 - 3084 = ☐ → C	7917 - 2670 = ☐ → F	8113 - 2320 = ☐ → U
6297 - 1027 = ☐ → O	8948 - 4802 = ☐ → H	6167 - 2363 = ☐ → A
2634 - 764 = ☐ → S	2991 - 1184 = ☐ → G	8784 - 1670 = ☐ → N
7879 - 443 = ☐ → I	8092 - 3941 = ☐ → D	

Scratch space:

CLUE 2 Rounding

> The target was far away. Our spyglass could only estimate the coordinate to the nearest ten. Round this number to find where they went!

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

T																								T
4300	500	70	230	1300	370	70	110	70	1300	2900	1700	370	300	230	2900	290	70	110	4300					

Round 4,302 to the nearest hundred ☐ → **T**

Round 1,340 to the nearest hundred ☐ → **R**

Round 234 to the nearest ten ☐ → **G**

Round 371 to the nearest ten ☐ → **I**

Round 453 to the nearest hundred ☐ → **H**

Round 346 to the nearest hundred ☐ → **N**

Round 2,863 to the nearest hundred ☐ → **S**

Round 108 to the nearest ten ☐ → **F**

Round 66 to the nearest ten ☐ → **E**

Round 293 to the nearest ten ☐ → **L**

Round 1,711 to the nearest hundred ☐ → **W**

Scratch space:

CLUE 3 Addition

> We gathered all the scattered redstone torches from two separate paths. Add them together to see the total clue strength!

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

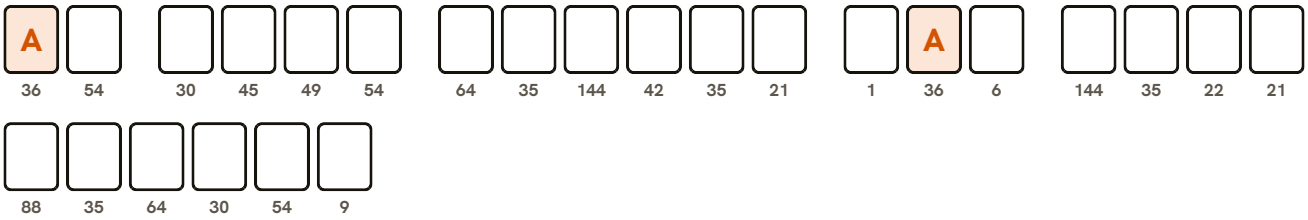
2561 + 2460 = ☐ → **T**	5301 + 3959 = ☐ → **U**	3638 + 2206 = ☐ → **E**
1962 + 3405 = ☐ → **I**	2411 + 1063 = ☐ → **N**	2245 + 3073 = ☐ → **F**
4088 + 3725 = ☐ → **L**	2779 + 2841 = ☐ → **R**	1398 + 2729 = ☐ → **O**
1340 + 1296 = ☐ → **H**	3047 + 3374 = ☐ → **M**	2425 + 3161 = ☐ → **S**
1101 + 1317 = ☐ → **G**		

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The suspect fled past rows of melon blocks. If there are equal columns of melons, multiply them to crack this next code!

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



6 × 6 = ☐ → A	6 × 7 = ☐ → M	9 × 5 = ☐ → R	6 × 5 = ☐ → I
6 × 9 = ☐ → N	11 × 8 = ☐ → B	2 × 11 = ☐ → F	
7 × 7 = ☐ → O	7 × 5 = ☐ → E	1 × 1 = ☐ → W	1 × 6 = ☐ → S
12 × 12 = ☐ → L	7 × 3 = ☐ → T	9 × 1 = ☐ → D	
8 × 8 = ☐ → H			

Scratch space:

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

> We found a stack of sweet berries. If we share them equally among our wolf pack, the remaining count gives us the final secret!

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:

28 ÷ 4 = ☐ | 44 ÷ 11 = ☐ | 48 ÷ 4 = ☐ | 10 ÷ 10 = ☐ | 4 ÷ 2 = ☐

10 ÷ 1 = ☐ | 77 ÷ 7 = ☐ | 30 ÷ 5 = ☐ | 64 ÷ 8 = ☐ | 27 ÷ 9 = ☐

25 ÷ 5 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain splashed a potion of slowness, then swung a diamond sword.
2. The villain splashed a potion of slowness, then ate a golden apple.
3. The villain warped behind the beacon, then launched a fire charge.
4. The villain sparked a redstone line, then ate a golden apple.
5. The villain warped behind the beacon, then chopped with a netherite axe.
6. The villain splashed a potion of slowness, then placed a primed TNT blast.
7. The villain glided from the high tower, then chopped with a netherite axe.
8. The villain placed a sticky cobweb trap, then ate a golden apple.
9. The villain warped behind the beacon, then ate a golden apple.
10. The villain placed a sticky cobweb trap, then placed a primed TNT blast.
11. The villain placed a sticky cobweb trap, then swung a diamond sword.
12. The villain glided from the high tower, then swung a diamond sword.

TEACHER / PARENT

Answer Key

The Great Block Mystery

Culprit: Stampy

Ender Warp · Golden Apple · Left-handed swing · Iron Helmet · Iron Golem

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE GRIEFER DOES NOT USE FIRE CHARGES"

6408 - 2928 = 3480 (T) · 7093 - 399 = 6694 (E) · 9017 - 1853 = 7164 (R) · 7138 - 3084 = 4054 (C) · 7917 - 2670 = 5247 (F) · 8113 - 2320 = 5793 (U) · 6297 - 1027 = 5270 (O) · 8948 - 4802 = 4146 (H) · 6167 - 2363 = 3804 (A) · 2634 - 764 = 1870 (S) · 2991 - 1184 = 1807 (G) · 8784 - 1670 = 7114 (N) · 7879 - 443 = 7436 (I) · 8092 - 3941 = 4151 (D)

Clue 2 (Rounding): "THE GRIEFER SWINGS LEFT"

Round 4,302 to the nearest hundred = 4300 (T) · Round 1,340 to the nearest hundred = 1300 (R) · Round 234 to the nearest ten = 230 (G) · Round 371 to the nearest ten = 370 (I) · Round 453 to the nearest hundred = 500 (H) · Round 346 to the nearest hundred = 300 (N) · Round 2,863 to the nearest hundred = 2900 (S) · Round 108 to the nearest ten = 110 (F) · Round 66 to the nearest ten = 70 (E) · Round 293 to the nearest ten = 290 (L) · Round 1,711 to the nearest hundred = 1700 (W)

Clue 3 (Addition): "THE GRIEFER RUNS FROM IRON GOLEMS"

2561 + 2460 = 5021 (T) · 5301 + 3959 = 9260 (U) · 3638 + 2206 = 5844 (E) · 1962 + 3405 = 5367 (I) · 2411 + 1063 = 3474 (N) · 2245 + 3073 = 5318 (F) · 4088 + 3725 = 7813 (L) · 2779 + 2841 = 5620 (R) · 1398 + 2729 = 4127 (O) · 1340 + 1296 = 2636 (H) · 3047 + 3374 = 6421 (M) · 2425 + 3161 = 5586 (S) · 1101 + 1317 = 2418 (G)

Clue 4 (Multiplication facts (1-12)): "AN IRON HELMET WAS LEFT BEHIND"

6 × 6 = 36 (A) · 6 × 7 = 42 (M) · 9 × 5 = 45 (R) · 6 × 5 = 30 (I) · 6 × 9 = 54 (N) · 11 × 8 = 88 (B) · 2 × 11 = 22 (F) · 7 × 7 = 49 (O) · 7 × 5 = 35 (E) · 1 × 1 = 1 (W) · 1 × 6 = 6 (S) · 12 × 12 = 144 (L) · 7 × 3 = 21 (T) · 9 × 1 = 9 (D) · 8 × 8 = 64 (H)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Stampy

28 ÷ 4 = 7 · 44 ÷ 11 = 4 · 48 ÷ 4 = 12 · 10 ÷ 10 = 1 · 4 ÷ 2 = 2 · 10 ÷ 1 = 10 · 77 ÷ 7 = 11 · 30 ÷ 5 = 6 · 64 ÷ 8 = 8 · 27 ÷ 9 = 3 · 25 ÷ 5 = 5