



The Mystery of the Missing Netherite

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 5-6

Detective: _____ Date: _____

A sneaky Griefer broke into the spawn temple and snatched the legendary Diamond Pickaxe right out of the Server Admin's secure chest! We must search the blocks, scan the coordinate maps, and find the culprit before the server gets flooded with lava.

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 METHOD	SKILL SET	FOOTPRINT TYPE	SKINS HAIR DYE	FOIL ITEM
MumboJumbo	elytra gliding	smelting netherite ingots	wears diamond boots	redstone red dye	cats and ocelots
SmallishBeans	potion of invisibility	brewing poison potions	wears gold boots	creeper green dye	bucket of water
Technoblade	elytra gliding	summoning iron golems	wears diamond boots	lapis lazuli blue dye	bucket of water
Grian	ender pearl teleportation	enchanted diamond armor	wears diamond boots	lapis lazuli blue dye	cats and ocelots
Stampy	elytra gliding	taming wolves	wears gold boots	creeper green dye	splash potion of weakness
GoodTimesWithScar	tnt blast ignition	taming wolves	wears gold boots	lapis lazuli blue dye	cats and ocelots
iskall85	ender pearl teleportation	smelting netherite ingots	wears gold boots	lapis lazuli blue dye	cats and ocelots
Dream	ender pearl teleportation	enchanted diamond armor	wears gold boots	lapis lazuli blue dye	cats and ocelots
Sapnap	ender pearl teleportation	summoning iron golems	wears diamond boots	redstone red dye	splash potion of weakness
FalseSymmetry	tnt blast ignition	smelting netherite ingots	wears diamond boots	creeper green dye	splash potion of weakness
PopularMMOs	ender pearl teleportation	smelting netherite ingots	wears gold boots	lapis lazuli blue dye	bucket of water
DanTDM	tnt blast ignition	summoning iron golems	wears gold boots	lapis lazuli blue dye	bucket of water
EthosLab	potion of invisibility	summoning iron golems	wears gold boots	lapis lazuli blue dye	bucket of water
AntVenom	creative mode flight	enchanted diamond armor	wears diamond boots	redstone red dye	splash potion of weakness
GeorgeNotFound	tnt blast ignition	taming wolves	wears gold boots	redstone red dye	bucket of water
Skeppy	ender pearl teleportation	smelting netherite ingots	wears gold boots	lapis lazuli blue dye	splash potion of weakness
Alex	elytra gliding	summoning iron golems	wears gold boots	lapis lazuli blue dye	bucket of water
Docm77	creative mode flight	smelting netherite ingots	wears gold boots	lapis lazuli blue dye	cats and ocelots
ZombieCleo	elytra gliding	enchanted diamond armor	wears gold boots	lapis lazuli blue dye	bucket of water
BadBoyHalo	creative mode flight	taming wolves	wears gold boots	lapis lazuli blue dye	cats and ocelots
LDShadowLady	potion of invisibility	summoning iron golems	wears gold boots	creeper green dye	splash potion of weakness

CLUE 1

An observer block tracked the Griefer's navigation system but the coordinate signal scrambled. To decode the security digits, we must analyze the ones, tens, and hundreds places.

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

The diagram shows two rows of boxes, each representing a position in a sequence. The top row has 18 boxes, and the bottom row has 12 boxes. Some boxes are shaded orange and contain the letter 'T', indicating they are 'true' or 'present'. The numbers below the boxes represent the values in each position.

Position	Top Row Value	Top Row Status	Bottom Row Value	Bottom Row Status
1	83	True	63	False
2	29	False	82	False
3	50	False	50	False
4	30	False	38	False
5	33	False	83	True
6	41	False	79	False
7	50	False	50	False
8	19	False	83	True
9	50	False	29	False
10	33	False	50	False
11	21	False	33	False
12	36	False	41	False
13	50	False	83	True
14	63	False	50	False
15	79	False		
16	36	False		
17	83	True		

What number has 8 tens and 3 ones? → **T**

What number has 3 tens and 0 ones? → **G**

What number has 3 tens and 8 ones? → **L**

What number has 1 ten and 9 ones? → **F**

What number has 3 tens and 6 ones? → **O**

What number has 8 tens and 2 ones?	→	M
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What number has 4 tens and 1 one? →

1

What number has 2 tens and 9 ones? → **H**

What number has 7 tens and 9 ones? → **N**

What number has 2 tens and 1 one? → **D**

What number has 5 tens and 0 ones? → **E**

What number has 3 tens and 3 ones? → **R**

What number has 6 tens and 3 ones? → **S**

Scratch space:

CLUE 2 Addition

The guard iron golem gathered all the discarded building materials left at the crime scene. Tallying up the blocks of cobblestone and wooden planks reveals a crucial clue.

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

S																		S
89	35	79	82	91	87	76	50	93	34	76	76	62	44	71	79	82	62	89
51	33	71	33	38	76	78	82	93	34	91	62	35	33	93	76	76	71	

$41 + 48 = \square \rightarrow \boxed{\text{S}}$

$33 + 17 = \square \rightarrow \boxed{\text{L}}$

$16 + 18 = \square \rightarrow \boxed{\text{B}}$

$30 + 63 = \square \rightarrow \boxed{\text{D}}$

$22 + 16 = \square \rightarrow \boxed{\text{F}}$

$18 + 15 = \square \rightarrow \boxed{\text{E}}$

$22 + 22 = \square \rightarrow \boxed{\text{P}}$

$23 + 48 = \square \rightarrow \boxed{\text{R}}$

$36 + 43 = \square \rightarrow \boxed{\text{I}}$

$28 + 34 = \square \rightarrow \boxed{\text{T}}$

$35 + 16 = \square \rightarrow \boxed{\text{W}}$

$34 + 42 = \square \rightarrow \boxed{\text{O}}$

$58 + 29 = \square \rightarrow \boxed{\text{G}}$

$43 + 48 = \square \rightarrow \boxed{\text{Y}}$

$24 + 11 = \square \rightarrow \boxed{\text{H}}$

$26 + 52 = \square \rightarrow \boxed{\text{U}}$

$43 + 39 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3 Subtraction

A skeleton archer shot arrows at the fleeing suspect, knocking several items out of their inventory pockets. Subtracting the lost emeralds from the starting amount points us to the next lead.

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

T																		
76	85	43	50	37	20	43	28	43	37	56	61	48	48	26	61	37	43	33

				T							T		
42	28	56	61	76	43	37	49	70	26	82	43	76	48

$111 - 35 = \square \rightarrow \boxed{\text{T}}$	$54 - 26 = \square \rightarrow \boxed{\text{F}}$	$43 - 10 = \square \rightarrow \boxed{\text{D}}$
$72 - 30 = \square \rightarrow \boxed{\text{O}}$	$86 - 16 = \square \rightarrow \boxed{\text{U}}$	$21 - 1 = \square \rightarrow \boxed{\text{I}}$
$43 - 6 = \square \rightarrow \boxed{\text{R}}$	$37 - 11 = \square \rightarrow \boxed{\text{C}}$	$91 - 6 = \square \rightarrow \boxed{\text{H}}$
$86 - 30 = \square \rightarrow \boxed{\text{W}}$	$77 - 28 = \square \rightarrow \boxed{\text{B}}$	$55 - 7 = \square \rightarrow \boxed{\text{S}}$
$57 - 7 = \square \rightarrow \boxed{\text{G}}$	$62 - 19 = \square \rightarrow \boxed{\text{E}}$	$103 - 21 = \square \rightarrow \boxed{\text{K}}$
$79 - 18 = \square \rightarrow \boxed{\text{A}}$		

Scratch space:

CLUE 4 Skip counting

The runner placed torches down a long dark mine shaft at perfect, repeating intervals. Counting the steps between each light source leads us straight to a hidden scrap of evidence.

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

W															
14	70	80	26	60	8	22	90	50	140	42	8	22	90	26	80
													W		
110	27	60	70	35	42	10	140	42	50	90	28	42	14	8	

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **S**

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, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **P**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **I**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **A**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **H**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **U**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 → **E**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **T**

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **F**

Scratch space:

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

To open the server vault door, we have to load the item frame with the exact amount of fuel needed for the furnace. Finding the missing value unlocks the last 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:

$2 + \underline{\quad} = 12$

$1 + \underline{\quad} = 2$

$1 + \underline{\quad} = 6$

$3 + \underline{\quad} = 11$

$5 + \underline{\quad} = 17$

$5 + \underline{\quad} = 8$

$6 + \underline{\quad} = 15$

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

$2 + \underline{\quad} = 4$

$2 + \underline{\quad} = 8$

$10 + \underline{\quad} = 21$

Step 2 - cross out the sentence with each answer:

1. The villain drank a potion of invisibility to vanish, then then summoned an iron golem to distract the guard.
2. The villain lit a block of tnt near the wall, then then whistled for a pack of tamed wolves.
3. The villain drank a potion of invisibility to vanish, then then whistled for a pack of tamed wolves.
4. The villain glided down silently from a high cliff using elytra, then then quickly enchanted their armor at the table.
5. The villain lit a block of tnt near the wall, then then summoned an iron golem to distract the guard.
6. The villain lit a block of tnt near the wall, then then smelted netherite ingots in a blast furnace.
7. The villain lit a block of tnt near the wall, then then splashed a brewing stand with poison potions.
8. The villain threw an ender pearl to bypass the fence, then then summoned an iron golem to distract the guard.
9. The villain lit a block of tnt near the wall, then then quickly enchanted their armor at the table.
10. The villain glided down silently from a high cliff using elytra, then then summoned an iron golem to distract the guard.
11. The villain flew over the obsidian walls in creative mode, then then whistled for a pack of tamed wolves.
12. The villain drank a potion of invisibility to vanish, then then quickly enchanted their armor at the table.

Answer Key

The Mystery of the Missing Netherite

Culprit: ZombieCleo

elytra gliding · enchanting diamond armor · wears gold boots · lapis lazuli blue dye · bucket of water

Trail: Start 21 → Clue 1 15 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE GRIEFER DOES NOT SMELT NETHERITE"

What number has 8 tens and 3 ones? = 83 (T) · What number has 3 tens and 0 ones? = 30 (G) · What number has 3 tens and 8 ones? = 38 (L) · What number has 1 ten and 9 ones? = 19 (F) · What number has 3 tens and 6 ones? = 36 (O) · What number has 8 tens and 2 ones? = 82 (M) · What number has 4 tens and 1 one? = 41 (I) · What number has 2 tens and 9 ones? = 29 (H) · What number has 7 tens and 9 ones? = 79 (N) · What number has 2 tens and 1 one? = 21 (D) · What number has 5 tens and 0 ones? = 50 (E) · What number has 3 tens and 3 ones? = 33 (R) · What number has 6 tens and 3 ones? = 63 (S)

Clue 2 (Addition): "SHINY GOLD BOOTPRINTS WERE FOUND BY THE DOOR"

$41 + 48 = 89$ (S) · $33 + 17 = 50$ (L) · $16 + 18 = 34$ (B) · $30 + 63 = 93$ (D) · $22 + 16 = 38$ (F) · $18 + 15 = 33$ (E) · $22 + 22 = 44$ (P) · $23 + 48 = 71$ (R) · $36 + 43 = 79$ (I) · $28 + 34 = 62$ (T) · $35 + 16 = 51$ (W) · $34 + 42 = 76$ (O) · $58 + 29 = 87$ (G) · $43 + 48 = 91$ (Y) · $24 + 11 = 35$ (H) · $26 + 52 = 78$ (U) · $43 + 39 = 82$ (N)

Clue 3 (Subtraction): "THE GRIEFER WAS SCARED OF WATER BUCKETS"

$111 - 35 = 76$ (T) · $54 - 26 = 28$ (F) · $43 - 10 = 33$ (D) · $72 - 30 = 42$ (O) · $86 - 16 = 70$ (U) · $21 - 1 = 20$ (I) · $43 - 6 = 37$ (R) · $37 - 11 = 26$ (C) · $91 - 6 = 85$ (H) · $86 - 30 = 56$ (W) · $77 - 28 = 49$ (B) · $55 - 7 = 48$ (S) · $57 - 7 = 50$ (G) · $62 - 19 = 43$ (E) · $103 - 21 = 82$ (K) · $79 - 18 = 61$ (A)

Clue 4 (Skip counting): "WE FOUND STRANDS OF BLUE HAIR AT SPAWN"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (S) · 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, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (U) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60, 65, __, 75, 80 = 70 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (F)

Clue 5 (Missing addends): surviving statement is box 4 → ZombieCleo

$2 + \underline{\quad} = 12 = 10$ · $1 + \underline{\quad} = 2 = 1$ · $1 + \underline{\quad} = 6 = 5$ · $3 + \underline{\quad} = 11 = 8$ · $5 + \underline{\quad} = 17 = 12$ · $5 + \underline{\quad} = 8 = 3$ · $6 + \underline{\quad} = 15 = 9$ · $10 + \underline{\quad} = 17 = 7$ · $2 + \underline{\quad} = 4 = 2$ · $2 + \underline{\quad} = 8 = 6$ · $10 + \underline{\quad} = 21 = 11$