



The Great Block Mystery

Grade 3 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 1-2

Detective: _____ Date: _____

Oh no! A sneaky Griefing Bot has messed up our beautiful pixel town. They broke our giant cake monument and ran away. We must look at the clues left behind to find out 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 Griefing Bot 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	POTION EFFECT	DOMINANT HAND	HELMET CHOICE	GREATEST FEAR
Leo	Redstone Repeater	Invisibility Potion	Left-handed crafter	Creeper mask	Cat meow
Skeppy	Elytra Wings	Swiftess Potion	Right-handed crafter	Pumpkin helmet	Cat meow
Will	Netherite Pickaxe	Fire Resistance	Left-handed crafter	Pumpkin helmet	Splash water bottle
Luke	Redstone Repeater	Fire Resistance	Right-handed crafter	Gold helmet	Splash water bottle
Mumbo	Golden Apple	Night Vision	Left-handed crafter	Gold helmet	Iron golem
Phil	Diamond Sword	Night Vision	Left-handed crafter	Creeper mask	Cat meow
Dan	Netherite Pickaxe	Water Breathing	Left-handed crafter	Creeper mask	Splash water bottle
Jimmy	Redstone Repeater	Night Vision	Left-handed crafter	Gold helmet	Cat meow
Preston	Elytra Wings	Water Breathing	Right-handed crafter	Pumpkin helmet	Iron golem
Grian	Elytra Wings	Water Breathing	Left-handed crafter	Gold helmet	Splash water bottle
Steve	Golden Apple	Invisibility Potion	Left-handed crafter	Gold helmet	Cat meow
Scar	Netherite Pickaxe	Swiftess Potion	Left-handed crafter	Creeper mask	Splash water bottle
Toby	Diamond Sword	Invisibility Potion	Right-handed crafter	Creeper mask	Splash water bottle
Chris	Netherite Pickaxe	Fire Resistance	Left-handed crafter	Creeper mask	Splash water bottle
Joel	Diamond Sword	Invisibility Potion	Left-handed crafter	Creeper mask	Splash water bottle
Maya	Netherite Pickaxe	Night Vision	Right-handed crafter	Gold helmet	Splash water bottle
Stampy	Elytra Wings	Water Breathing	Left-handed crafter	Pumpkin helmet	Cat meow
Jen	Elytra Wings	Invisibility Potion	Right-handed crafter	Creeper mask	Iron golem
Sparky	Redstone Repeater	Swiftess Potion	Left-handed crafter	Creeper mask	Splash water bottle
Sam	Diamond Sword	Fire Resistance	Right-handed crafter	Gold helmet	Splash water bottle
Lizzie	Diamond Sword	Swiftess Potion	Right-handed crafter	Creeper mask	Splash water bottle

CLUE 1

Multiplication facts (1-12)

We find some chests. They are in neat rows. We multiply the rows to count the total boxes.

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

T																T
72	48	55	99	27	15	15	144	27	77	12	8	55	18	77	8	72

												T		
2	18	55	27	77	99	27	18	27	81	27	15	27	72	45

$8 \times 9 = \square \rightarrow \boxed{\text{T}}$

$12 \times 12 = \square \rightarrow \boxed{\text{A}}$

$2 \times 1 = \square \rightarrow \boxed{\text{U}}$

$3 \times 9 = \square \rightarrow \boxed{\text{I}}$

$3 \times 6 = \square \rightarrow \boxed{\text{S}}$

$11 \times 7 = \square \rightarrow \boxed{\text{N}}$

$4 \times 2 = \square \rightarrow \boxed{\text{O}}$

$9 \times 11 = \square \rightarrow \boxed{\text{V}}$

$3 \times 5 = \square \rightarrow \boxed{\text{L}}$

$9 \times 9 = \square \rightarrow \boxed{\text{B}}$

$5 \times 9 = \square \rightarrow \boxed{\text{Y}}$

$4 \times 3 = \square \rightarrow \boxed{\text{D}}$

$12 \times 4 = \square \rightarrow \boxed{\text{H}}$

$5 \times 11 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

Rounding

A radar screen blinks. It only shows rounded numbers. We round the blocks to the nearest ten.

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

Diagram illustrating the sequence of numbers and markers (T) in the first two rows of the sequence:

Row 1: 3000 (T), 500, 800, 50, 7000, 800, 300, 30, 80, 8000, 600, 800, 60, 50, 2000, 800, 8000, 3000 (T).

Row 2: 500, 300, 7000, 4000, 800, 4000.

Round 2,840 to the nearest thousand $\rightarrow$ **T**

Round 80 to the nearest ten $\rightarrow$ **Y**

Round 62 to the nearest ten $\rightarrow$

Round 2,060 to the nearest thousand $\rightarrow$ **L**

Round 52 to the nearest ten $\rightarrow$ **S**

Round 298 to the nearest hundred $\rightarrow$ **A**

Round 6,538 to the nearest thousand → **N**

Round 845 to the nearest hundred → **E**

Round 30 to the nearest ten $\rightarrow$ **K**

Round 569 to the nearest hundred $\rightarrow$ **0**

Round 3,983 to the nearest thousand $\rightarrow$ **D**

Round 8,486 to the nearest thousand → **F**

Round 526 to the nearest hundred → **H**

Scratch space:

CLUE 3

Addition

Let us check the item piles. We add the iron blocks together to get the total count.

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

T								T								
320	582	502	299	561	752	299	648	320	218	719	311	319	561	379	561	226

						T		
707	218	648	405	379	561	320	502	218

$189 + 131 = \square \rightarrow \text{T}$

$363 + 389 = \square \rightarrow \text{D}$

$199 + 112 = \square \rightarrow \text{N}$

$237 + 482 = \square \rightarrow \text{U}$

$200 + 382 = \square \rightarrow \text{H}$

$277 + 128 = \square \rightarrow \text{M}$

$124 + 102 = \square \rightarrow \text{Y}$

$233 + 269 = \square \rightarrow \text{E}$

$465 + 242 = \square \rightarrow \text{F}$

$331 + 317 = \square \rightarrow \text{O}$

$97 + 222 = \square \rightarrow \text{S}$

$328 + 233 = \square \rightarrow \text{A}$

$117 + 101 = \square \rightarrow \text{R}$

$198 + 101 = \square \rightarrow \text{B}$

$266 + 113 = \square \rightarrow \text{W}$

Scratch space:

CLUE 4

Subtraction

Some of our sweet berries are missing. We subtract what we have left to see how many were taken.

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

W												
278	230	526	233	584	483	305	308	461	538	230	230	483

323	538	230	230	312	230	538	620	578	233	323	268

$544 - 266 = \square \rightarrow \boxed{\text{W}}$

$809 - 326 = \square \rightarrow \boxed{\text{N}}$

$880 - 260 = \square \rightarrow \boxed{\text{B}}$

$524 - 212 = \square \rightarrow \boxed{\text{P}}$

$700 - 392 = \square \rightarrow \boxed{\text{A}}$

$662 - 124 = \square \rightarrow \boxed{\text{R}}$

$488 - 165 = \square \rightarrow \boxed{\text{C}}$

$383 - 115 = \square \rightarrow \boxed{\text{K}}$

$562 - 257 = \square \rightarrow \boxed{\text{D}}$

$730 - 204 = \square \rightarrow \boxed{\text{F}}$

$666 - 82 = \square \rightarrow \boxed{\text{U}}$

$416 - 183 = \square \rightarrow \boxed{\text{O}}$

$604 - 143 = \square \rightarrow \boxed{\text{G}}$

$912 - 334 = \square \rightarrow \boxed{\text{L}}$

$440 - 210 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

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

We have a stack of golden carrots. We divide them into equal piles to share with the team.

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:

$108 \div 9 = \boxed{}$

$3 \div 3 = \boxed{}$

$24 \div 12 = \boxed{}$

$6 \div 2 = \boxed{}$

$49 \div 7 = \boxed{}$

$66 \div 11 = \boxed{}$

$88 \div 8 = \boxed{}$

$32 \div 8 = \boxed{}$

$100 \div 10 = \boxed{}$

$90 \div 10 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings a netherite pickaxe, then gains water breathing power.
2. The villain swings a netherite pickaxe, then drinks a fire resistance potion.
3. The villain flies with elytra wings, then drinks a fire resistance potion.
4. The villain eats a golden apple, then fades away with invisibility.
5. The villain places a redstone repeater, then gulps down a swiftness potion.
6. The villain flies with elytra wings, then gulps down a swiftness potion.
7. The villain eats a golden apple, then drinks a fire resistance potion.
8. The villain swings a netherite pickaxe, then fades away with invisibility.
9. The villain eats a golden apple, then gains water breathing power.
10. The villain places a redstone repeater, then drinks a fire resistance potion.
11. The villain swings a diamond sword, then gains water breathing power.
12. The villain swings a netherite pickaxe, then gulps down a swiftness potion.

Answer Key

The Great Block Mystery

Culprit: Sparky

Redstone Repeater · Swiftess Potion · Left-handed crafter · Creeper mask · Splash water bottle

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE INVISIBILITY"

$8 \times 9 = 72$ (T) · $12 \times 12 = 144$ (A) · $2 \times 1 = 2$ (U) · $3 \times 9 = 27$ (I) · $3 \times 6 = 18$ (S) · $11 \times 7 = 77$ (N) · $4 \times 2 = 8$ (O) · $9 \times 11 = 99$ (V) · $3 \times 5 = 15$ (L) · $9 \times 9 = 81$ (B) · $5 \times 9 = 45$ (Y) · $4 \times 3 = 12$ (D) · $12 \times 4 = 48$ (H) · $5 \times 11 = 55$ (E)

Clue 2 (Rounding): "THE SNEAKY FOE IS LEFT HANDED"

Round 2,840 to the nearest thousand = 3000 (T) · Round 80 to the nearest ten = 80 (Y) · Round 62 to the nearest ten = 60 (I) · Round 2,060 to the nearest thousand = 2000 (L) · Round 52 to the nearest ten = 50 (S) · Round 298 to the nearest hundred = 300 (A) · Round 6,538 to the nearest thousand = 7000 (N) · Round 845 to the nearest hundred = 800 (E) · Round 30 to the nearest ten = 30 (K) · Round 569 to the nearest hundred = 600 (O) · Round 3,983 to the nearest thousand = 4000 (D) · Round 8,486 to the nearest thousand = 8000 (F) · Round 526 to the nearest hundred = 500 (H)

Clue 3 (Addition): "THE BAD BOT RUNS AWAY FROM WATER"

$189 + 131 = 320$ (T) · $363 + 389 = 752$ (D) · $199 + 112 = 311$ (N) · $237 + 482 = 719$ (U) · $200 + 382 = 582$ (H) · $277 + 128 = 405$ (M) · $124 + 102 = 226$ (Y) · $233 + 269 = 502$ (E) · $465 + 242 = 707$ (F) · $331 + 317 = 648$ (O) · $97 + 222 = 319$ (S) · $328 + 233 = 561$ (A) · $117 + 101 = 218$ (R) · $198 + 101 = 299$ (B) · $266 + 113 = 379$ (W)

Clue 4 (Subtraction): "WE FOUND A GREEN CREEPER BLOCK"

$544 - 266 = 278$ (W) · $809 - 326 = 483$ (N) · $880 - 260 = 620$ (B) · $524 - 212 = 312$ (P) · $700 - 392 = 308$ (A) · $662 - 124 = 538$ (R) · $488 - 165 = 323$ (C) · $383 - 115 = 268$ (K) · $562 - 257 = 305$ (D) · $730 - 204 = 526$ (F) · $666 - 82 = 584$ (U) · $416 - 183 = 233$ (O) · $604 - 143 = 461$ (G) · $912 - 334 = 578$ (L) · $440 - 210 = 230$ (E)

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

$108 \div 9 = 12$ · $3 \div 3 = 1$ · $24 \div 12 = 2$ · $6 \div 2 = 3$ · $49 \div 7 = 7$ · $66 \div 11 = 6$ · $88 \div 8 = 11$ · $32 \div 8 = 4$ · $100 \div 10 = 10$ · $90 \div 10 = 9$ · $24 \div 3 = 8$