



The Diamond Block Mystery

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

Detective: _____ Date: _____

Someone snuck into the village hall and mined the sacred Diamond Block! Our only hope is a clever detective who can follow the redstone trails and solve the math puzzles left behind.

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 Rogue is _____

Possible suspects

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

NAME	PRIMARY SKILL	SPAWNED GEAR	COMBAT STANCE	CHARACTER HELMET	CRITICAL WEAKNESS
Ranboo	Elytra glider flying	Diamond sword	Left handed swing	Purple dragon hat	Iron golem patrol
GoodTimesWithScar	TNT block blasting	Netherite chestplate	Right handed swing	Purple dragon hat	Ocelot companion
VintageBeef	Elytra glider flying	Enchanted golden apple	Right handed swing	Shiny gold crown	Ocelot companion
BdoubleO	Ender pearl teleporting	Netherite chestplate	Right handed swing	Purple dragon hat	Ocelot companion
Steve	TNT block blasting	Totem of undying	Right handed swing	Creeper mask	Splash potion of water
GeorgeNotFound	Spawning tamed wolves	Totem of undying	Left handed swing	Shiny gold crown	Ocelot companion
LDShadowLady	TNT block blasting	Potion of fire resistance	Right handed swing	Purple dragon hat	Iron golem patrol
Aphmau	Ender pearl teleporting	Enchanted golden apple	Right handed swing	Purple dragon hat	Iron golem patrol
AntVenom	Ender pearl teleporting	Diamond sword	Left handed swing	Shiny gold crown	Ocelot companion
Alex	Redstone machine building	Potion of fire resistance	Left handed swing	Purple dragon hat	Ocelot companion
CaptainSparklez	Spawning tamed wolves	Netherite chestplate	Right handed swing	Purple dragon hat	Ocelot companion
GeminiTay	TNT block blasting	Enchanted golden apple	Right handed swing	Purple dragon hat	Ocelot companion
BadBoyHalo	Spawning tamed wolves	Diamond sword	Right handed swing	Shiny gold crown	Iron golem patrol
Tubbo	Ender pearl teleporting	Enchanted golden apple	Left handed swing	Shiny gold crown	Ocelot companion
DanTDM	Spawning tamed wolves	Totem of undying	Right handed swing	Creeper mask	Ocelot companion
Sapnap	TNT block blasting	Totem of undying	Right handed swing	Shiny gold crown	Ocelot companion
TommyInnit	Ender pearl teleporting	Totem of undying	Right handed swing	Shiny gold crown	Splash potion of water
Sparky	Spawning tamed wolves	Potion of fire resistance	Right handed swing	Shiny gold crown	Ocelot companion
ZombieCleo	Elytra glider flying	Diamond sword	Right handed swing	Shiny gold crown	Ocelot companion
Etho	Spawning tamed wolves	Diamond sword	Left handed swing	Purple dragon hat	Splash potion of water
Grian	TNT block blasting	Diamond sword	Right handed swing	Shiny gold crown	Ocelot companion

CLUE 1 Addition

We found a double chest full of redstone torches. We need to add the two rows of torches together to decode the secret security signal.

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

T																T
469	568	284	368	773	578	578	866	773	968	287	952	284	549	968	952	469
568	866	368	284	866	818	952	578	287	284	968	866	532	532	578	284	

$303 + 166 = \square \rightarrow \boxed{\text{T}}$

$387 + 479 = \square \rightarrow \boxed{\text{A}}$

$470 + 482 = \square \rightarrow \boxed{\text{O}}$

$164 + 204 = \square \rightarrow \boxed{\text{V}}$

$104 + 183 = \square \rightarrow \boxed{\text{D}}$

$100 + 184 = \square \rightarrow \boxed{\text{E}}$

$343 + 225 = \square \rightarrow \boxed{\text{H}}$

$343 + 625 = \square \rightarrow \boxed{\text{N}}$

$330 + 488 = \square \rightarrow \boxed{\text{G}}$

$276 + 273 = \square \rightarrow \boxed{\text{S}}$

$310 + 463 = \square \rightarrow \boxed{\text{I}}$

$291 + 287 = \square \rightarrow \boxed{\text{L}}$

$351 + 181 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 2

A thief raided our iron storage crate. Subtract the leftover iron ingots from the starting stack to find out how many were stolen.

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

Diagram illustrating a 2D array structure with two rows of boxes. The top row contains 18 boxes, and the bottom row contains 14 boxes. Some boxes are highlighted in orange and contain the letter 'T'. Below each box is a numerical value.

Top Row (18 boxes):

- Box 1: Orange, contains 'T', value 852
- Box 2: White, value 104
- Box 3: White, value 228
- Box 4: White, value 434
- Box 5: White, value 267
- Box 6: White, value 488
- Box 7: White, value 488
- Box 8: White, value 500
- Box 9: White, value 267
- Box 10: White, value 641
- Box 11: White, value 883
- Box 12: White, value 646
- Box 13: White, value 267
- Box 14: White, value 641
- Box 15: White, value 361
- Box 16: White, value 883
- Box 17: White, value 646
- Box 18: White, value 267

Bottom Row (14 boxes):

- Box 1: Orange, contains 'T', value 852
- Box 2: White, value 104
- Box 3: White, value 228
- Box 4: White, value 267
- Box 5: White, value 458
- Box 6: White, value 458
- Box 7: White, value 267
- Box 8: White, value 361
- Box 9: White, value 104
- Box 10: Orange, contains 'T', value 852
- Box 11: White, value 104
- Box 12: White, value 500
- Box 13: White, value 641
- Box 14: White, value 239

$1231 - 379 = \boxed{} \rightarrow \boxed{\text{T}}$

$$529 - 41 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$737 - 303 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$574 - 346 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$1030 - 389 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1080 - 197 = \boxed{} \rightarrow \boxed{\text{S}}$$

$569 - 69 = \square \rightarrow \boxed{\text{A}}$

$$523 - 65 = \boxed{} \rightarrow \boxed{\text{R}}$$

198 - 94 = → **H**

$$576 - 309 = \boxed{} \rightarrow \boxed{}$$

$906 - 260 = \boxed{} \rightarrow \boxed{\text{W}}$

$338 - 99 = \boxed{} \rightarrow \boxed{\text{D}}$

$754 - 393 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

Scratch space:

Multiplication facts (1-12)

The blacksmith stacked obsidian blocks in equal rows inside the furnace room. Multiply the rows by the columns to count them quickly.

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

A 2x15 grid of boxes. The top row contains the following sequence: an orange box with 'A', an empty box, two empty boxes, an empty box, an empty box, an empty box, an empty box, an empty box, an empty box, an empty box, an empty box, an empty box, an empty box, an orange box with 'A', an empty box, and an empty box. Below these boxes are the numbers: 20, 28, 36, 48, 2, 120, 36, 7, 40, 144, 120, 120, 110, 48, 20, 121, 2. The bottom row contains: three empty boxes, two empty boxes, an empty box, an empty box, an empty box, an empty box, an orange box with 'A', an empty box, an empty box, an orange box with 'A', an empty box, an orange box with 'A', and an empty box. Below these boxes are the numbers: 7, 24, 2, 27, 144, 120, 120, 20, 144, 28, 20, 40, 20, 1.

$5 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$3 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$8 \times 3 = \boxed{} \rightarrow \boxed{\text{H}}$

$$4 \times 7 = \boxed{} \rightarrow \boxed{\text{N}}$$

$7 \times 1 = \boxed{} \rightarrow \boxed{\text{T}}$

$11 \times 10 = \boxed{} \rightarrow \boxed{\text{S}}$

$2 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{E}}$

$12 \times 10 = \boxed{} \rightarrow \boxed{\text{L}}$

$4 \times 12 = \boxed{} \rightarrow \boxed{\text{C}}$

$$4 \times 9 = \boxed{} \rightarrow \boxed{0}$$

$8 \times 5 = \square \rightarrow \boxed{\mathbf{W}}$

$$11 \times 11 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$12 \times 12 = \boxed{} \rightarrow \boxed{1}$$

$1 \times 1 = \square \rightarrow \boxed{\mathbf{Y}}$

Scratch space:

CLUE 4

Word problems

Alex wrote a word puzzle on a hanging sign outside the village library. Solving the riddle will reveal a map to the next clue.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of S L D C R W hair turned up at the scene.

47 39 55 72 43 51 9 9 72

There were 72 ender pearls. 25 were used up. How many ender pearls are left?

Answer: → S

Steve lined up 11 rows of 5 diamonds. How many diamonds in all?

Answer: → I

There were 74 diamonds. 35 were used up. How many diamonds are left?

Answer: → H

Steve lined up 8 rows of 9 slimeballs. How many slimeballs in all?

Answer: → N

Steve found 23 slimeballs yesterday and 28 more today. How many slimeballs in all?

Answer: → G

Steve found 28 ender pearls yesterday and 15 more today. How many ender pearls in all?

Answer: → Y

Steve found 6 emeralds yesterday and 3 more today. How many emeralds in all?

Answer: → O

Scratch space:

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

We need to split our healing potions equally among the village guards. Divide the total potions to see what each guard gets.

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:

$16 \div 8 = \boxed{}$

$55 \div 5 = \boxed{}$

$32 \div 8 = \boxed{}$

$6 \div 6 = \boxed{}$

$30 \div 6 = \boxed{}$

$18 \div 2 = \boxed{}$

$6 \div 2 = \boxed{}$

$36 \div 3 = \boxed{}$

$32 \div 4 = \boxed{}$

$42 \div 7 = \boxed{}$

$40 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swoops down using an elytra, then polishes some netherite armor.
2. The villain detonates a wall of TNT, then clutches a glowing totem of undying.
3. The villain teleports behind the chest, then clutches a glowing totem of undying.
4. The villain whistles for a pack of wolves, then splashes a fire resistance potion.
5. The villain wires up a redstone trap, then polishes some netherite armor.
6. The villain whistles for a pack of wolves, then munching an enchanted apple.
7. The villain detonates a wall of TNT, then swings a diamond sword.
8. The villain detonates a wall of TNT, then polishes some netherite armor.
9. The villain wires up a redstone trap, then munching an enchanted apple.
10. The villain whistles for a pack of wolves, then swings a diamond sword.
11. The villain swoops down using an elytra, then swings a diamond sword.
12. The villain whistles for a pack of wolves, then polishes some netherite armor.

Answer Key

The Diamond Block Mystery

Culprit: Grian

TNT block blasting · Diamond sword · Right handed swing · Shiny gold crown · Ocelot companion

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE A GOLDEN APPLE"

$303 + 166 = 469$ (T) · $387 + 479 = 866$ (A) · $470 + 482 = 952$ (O) · $164 + 204 = 368$ (V) · $104 + 183 = 287$ (D) · $100 + 184 = 284$ (E) · $343 + 225 = 568$ (H) · $343 + 625 = 968$ (N) · $330 + 488 = 818$ (G) · $276 + 273 = 549$ (S) · $310 + 463 = 773$ (I) · $291 + 287 = 578$ (L) · $351 + 181 = 532$ (P)

Clue 2 (Subtraction): "THE VILLAIN SWINGS WITH THEIR RIGHT HAND"

$1231 - 379 = 852$ (T) · $529 - 41 = 488$ (L) · $737 - 303 = 434$ (V) · $574 - 346 = 228$ (E) · $1030 - 389 = 641$ (N) · $1080 - 197 = 883$ (S) · $569 - 69 = 500$ (A) · $523 - 65 = 458$ (R) · $198 - 94 = 104$ (H) · $576 - 309 = 267$ (I) · $906 - 260 = 646$ (W) · $338 - 99 = 239$ (D) · $754 - 393 = 361$ (G)

Clue 3 (Multiplication facts (1-12)): "AN OCELOT WILL SCARE THE VILLAIN AWAY"

$5 \times 4 = 20$ (A) · $3 \times 9 = 27$ (V) · $8 \times 3 = 24$ (H) · $4 \times 7 = 28$ (N) · $7 \times 1 = 7$ (T) · $11 \times 10 = 110$ (S) · $2 \times 1 = 2$ (E) · $12 \times 10 = 120$ (L) · $4 \times 12 = 48$ (C) · $4 \times 9 = 36$ (O) · $8 \times 5 = 40$ (W) · $11 \times 11 = 121$ (R) · $12 \times 12 = 144$ (I) · $1 \times 1 = 1$ (Y)

Clue 4 (Word problems): "SHINY GOLD CROWN"

There were 72 ender pearls. 25 were used up. How many ender pearls are left? = 47 (S) · Steve lined up 11 rows of 5 diamonds. How many diamonds in all? = 55 (I) · There were 74 diamonds. 35 were used up. How many diamonds are left? = 39 (H) · Steve lined up 8 rows of 9 slimeballs. How many slimeballs in all? = 72 (N) · Steve found 23 slimeballs yesterday and 28 more today. How many slimeballs in all? = 51 (G) · Steve found 28 ender pearls yesterday and 15 more today. How many ender pearls in all? = 43 (Y) · Steve found 6 emeralds yesterday and 3 more today. How many emeralds in all? = 9 (O)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Grian

$16 \div 8 = 2$ · $55 \div 5 = 11$ · $32 \div 8 = 4$ · $6 \div 6 = 1$ · $30 \div 6 = 5$ · $18 \div 2 = 9$ · $6 \div 2 = 3$ · $36 \div 3 = 12$ · $32 \div 4 = 8$ · $42 \div 7 = 6$ · $40 \div 4 = 10$