The Crafting Haven Mystery

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

Detective: _____ **Date:** _____

A mysterious intruder ruined the outpost beacon and hid the village blue prints. Clues were left behind across the blocky builder zone. Help the detective track down the culprit before night falls.

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 Phantom is _____

Possible suspects

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

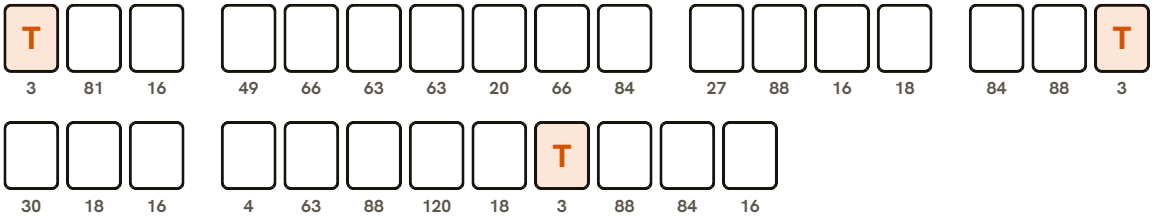
NAME	TOOL	BLOCK TYPE	HANDEDNESS	HELMET COLOR	BANISHED BY
Kevin Kingdom	Enchanted Axe	Sculk Block	Left Handed	Purple Helmet	Splash Potion
Grian Builder	Diamond Pickaxe	Obsidian	Left Handed	Orange Helmet	Llama Spit
CaptainSparklez	Enchanted Axe	Obsidian	Left Handed	Lime Helmet	Water Bucket
Fiona Forge	Diamond Pickaxe	Obsidian	Left Handed	Lime Helmet	Llama Spit
DanTDM	Diamond Pickaxe	Sculk Block	Left Handed	Purple Helmet	Llama Spit
Steve Miner	Diamond Pickaxe	Sculk Block	Left Handed	Lime Helmet	Llama Spit
Hannah Harvest	Diamond Pickaxe	Obsidian	Left Handed	Purple Helmet	Llama Spit
Creeper Chris	Netherite Sword	Sculk Block	Left Handed	Lime Helmet	Water Bucket
Owen Obsidian	Iron Hoe	Glowstone	Right Handed	Lime Helmet	Llama Spit
Mumbo Jumbo	Golden Shovel	Obsidian	Right Handed	Lime Helmet	Splash Potion
Alex Crafter	Enchanted Axe	Sculk Block	Right Handed	Orange Helmet	Splash Potion
LDShadowLady	Diamond Pickaxe	Redstone	Right Handed	Orange Helmet	Water Bucket
Ian Iron	Iron Hoe	Redstone	Left Handed	Lime Helmet	Water Bucket
Nora Nether	Golden Shovel	Slime Block	Left Handed	Purple Helmet	Water Bucket
Blocky Bella	Enchanted Axe	Obsidian	Right Handed	Purple Helmet	Llama Spit
Mason Mesa	Netherite Sword	Slime Block	Left Handed	Lime Helmet	Water Bucket
Gabe Grid	Diamond Pickaxe	Redstone	Right Handed	Lime Helmet	Water Bucket
Ender Eric	Enchanted Axe	Sculk Block	Left Handed	Orange Helmet	Splash Potion
Diamond Daisy	Netherite Sword	Obsidian	Left Handed	Orange Helmet	Llama Spit
Pixel Pete	Netherite Sword	Glowstone	Left Handed	Lime Helmet	Water Bucket
Redstone Ray	Golden Shovel	Redstone	Right Handed	Orange Helmet	Llama Spit

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CLUE 1 Multiplication facts (1-12)

> The mining crew arranged emerald crates into equal stacks to count the stash.

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



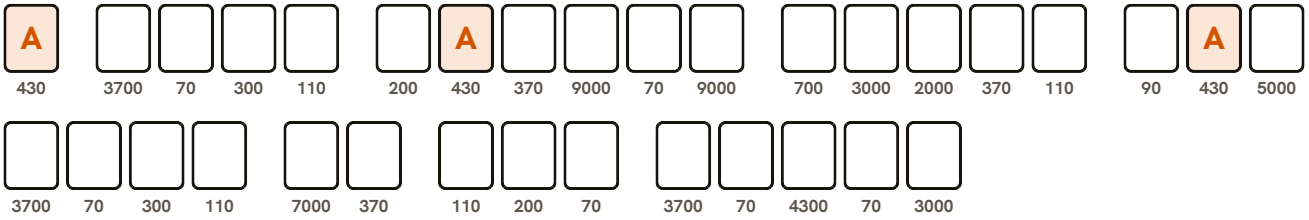
3 × 1 = ☐ → T	12 × 7 = ☐ → N	5 × 4 = ☐ → A	3 × 9 = ☐ → D
4 × 1 = ☐ → G	8 × 11 = ☐ → O	2 × 8 = ☐ → E	7 × 7 = ☐ → V
12 × 10 = ☐ → W	9 × 2 = ☐ → S	9 × 9 = ☐ → H	
5 × 6 = ☐ → U	6 × 11 = ☐ → I	9 × 7 = ☐ → L	

Scratch space:

CLUE 2 Rounding

The redstone scanner rounded the block counts to the nearest hundred.

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



Round 427 to the nearest ten ☐ → A

Round 157 to the nearest hundred ☐ → H

Round 88 to the nearest ten ☐ → W

Round 5,142 to the nearest thousand ☐ → S

Round 2,885 to the nearest thousand ☐ → R

Round 366 to the nearest ten ☐ → N

Round 9,353 to the nearest thousand ☐ → D

Round 2,273 to the nearest thousand ☐ → I

Round 3,703 to the nearest hundred ☐ → L

Round 730 to the nearest hundred ☐ → P

Round 7,090 to the nearest thousand ☐ → O

Round 335 to the nearest hundred ☐ → F

Round 71 to the nearest ten ☐ → E

Round 4,278 to the nearest hundred ☐ → V

Round 107 to the nearest ten ☐ → T

Scratch space:

CLUE 3 Addition

> The builders added up all the timber gathered from the forests today.

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



1728 + 3871 = ☐ → T	3396 + 2665 = ☐ → A	4462 + 3689 = ☐ → O
4316 + 4837 = ☐ → U	3879 + 3554 = ☐ → H	2826 + 2496 = ☐ → W
3542 + 1603 = ☐ → P	2705 + 2482 = ☐ → N	2806 + 5415 = ☐ → F
3509 + 6161 = ☐ → E	1592 + 1710 = ☐ → D	3264 + 2151 = ☐ → S
1376 + 787 = ☐ → L	5298 + 4157 = ☐ → V	1733 + 3923 = ☐ → I
4940 + 4525 = ☐ → R		

Scratch space:

CLUE 4 Subtraction

The village chief calculated how many iron bars were lost after the attack.

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



6494 - 2402 = ☐ → T

5108 - 532 = ☐ → H

5848 - 4381 = ☐ → C

11625 - 3160 = ☐ → M

10633 - 4277 = ☐ → O

6846 - 3150 = ☐ → L

7514 - 130 = ☐ → R

4532 - 975 = ☐ → U

7419 - 4876 = ☐ → I

3362 - 935 = ☐ → A

1475 - 327 = ☐ → D

2672 - 674 = ☐ → E

5311 - 1412 = ☐ → N

2433 - 1035 = ☐ → G

8262 - 3038 = ☐ → S

9540 - 1150 = ☐ → P

Scratch space:

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

> The crafting team split the remaining golden apples equally into chests.

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:

9 ÷ 1 = ☐	20 ÷ 4 = ☐	15 ÷ 5 = ☐	7 ÷ 1 = ☐	132 ÷ 11 = ☐
64 ÷ 8 = ☐	72 ÷ 12 = ☐	8 ÷ 2 = ☐	121 ÷ 11 = ☐	90 ÷ 9 = ☐
22 ÷ 11 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain tilled with an iron hoe, then wired dark redstone.
2. The villain swung a diamond pickaxe, then bounced off slime blocks.
3. The villain struck with a netherite sword, then spread creeping sculk blocks.
4. The villain chopped with an enchanted axe, then lit bright glowstone.
5. The villain chopped with an enchanted axe, then placed heavy obsidian.
6. The villain dug with a golden shovel, then spread creeping sculk blocks.
7. The villain tilled with an iron hoe, then spread creeping sculk blocks.
8. The villain chopped with an enchanted axe, then wired dark redstone.
9. The villain struck with a netherite sword, then bounced off slime blocks.
10. The villain chopped with an enchanted axe, then spread creeping sculk blocks.
11. The villain tilled with an iron hoe, then placed heavy obsidian.
12. The villain struck with a netherite sword, then wired dark redstone.

TEACHER / PARENT

Answer Key

The Crafting Haven Mystery

Culprit: Ian Iron

Iron Hoe · Redstone · Left Handed · Lime Helmet · Water Bucket

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 5 → Clue 4 4 → Clue 5 1

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

3 × 1 = 3 (T) · 12 × 7 = 84 (N) · 5 × 4 = 20 (A) · 3 × 9 = 27 (D) · 4 × 1 = 4 (G) · 8 × 11 = 88 (O) · 2 × 8 = 16 (E) · 7 × 7 = 49 (V) · 12 × 10 = 120 (W) · 9 × 2 = 18 (S) · 9 × 9 = 81 (H) · 5 × 6 = 30 (U) · 6 × 11 = 66 (I) · 9 × 7 = 63 (L)

Clue 2 (Rounding): "A LEFT HANDED PRINT WAS LEFT ON THE LEVER"

Round 427 to the nearest ten = 430 (A) · Round 157 to the nearest hundred = 200 (H) · Round 88 to the nearest ten = 90 (W) · Round 5,142 to the nearest thousand = 5000 (S) · Round 2,885 to the nearest thousand = 3000 (R) · Round 366 to the nearest ten = 370 (N) · Round 9,353 to the nearest thousand = 9000 (D) · Round 2,273 to the nearest thousand = 2000 (I) · Round 3,703 to the nearest hundred = 3700 (L) · Round 730 to the nearest hundred = 700 (P) · Round 7,090 to the nearest thousand = 7000 (O) · Round 335 to the nearest hundred = 300 (F) · Round 71 to the nearest ten = 70 (E) · Round 4,278 to the nearest hundred = 4300 (V) · Round 107 to the nearest ten = 110 (T)

Clue 3 (Addition): "THE VILLAIN FLED WHEN WATER WAS POURED"

1728 + 3871 = 5599 (T) · 3396 + 2665 = 6061 (A) · 4462 + 3689 = 8151 (O) · 4316 + 4837 = 9153 (U) · 3879 + 3554 = 7433 (H) · 2826 + 2496 = 5322 (W) · 3542 + 1603 = 5145 (P) · 2705 + 2482 = 5187 (N) · 2806 + 5415 = 8221 (F) · 3509 + 6161 = 9670 (E) · 1592 + 1710 = 3302 (D) · 3264 + 2151 = 5415 (S) · 1376 + 787 = 2163 (L) · 5298 + 4157 = 9455 (V) · 1733 + 3923 = 5656 (I) · 4940 + 4525 = 9465 (R)

Clue 4 (Subtraction): "THE SCENE HAD LIME HELMET SCRAPS ON GROUND"

6494 - 2402 = 4092 (T) · 5108 - 532 = 4576 (H) · 5848 - 4381 = 1467 (C) · 11625 - 3160 = 8465 (M) · 10633 - 4277 = 6356 (O) · 6846 - 3150 = 3696 (L) · 7514 - 130 = 7384 (R) · 4532 - 975 = 3557 (U) · 7419 - 4876 = 2543 (I) · 3362 - 935 = 2427 (A) · 1475 - 327 = 1148 (D) · 2672 - 674 = 1998 (E) · 5311 - 1412 = 3899 (N) · 2433 - 1035 = 1398 (G) · 8262 - 3038 = 5224 (S) · 9540 - 1150 = 8390 (P)

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

9 ÷ 1 = 9 · 20 ÷ 4 = 5 · 15 ÷ 5 = 3 · 7 ÷ 1 = 7 · 132 ÷ 11 = 12 · 64 ÷ 8 = 8 · 72 ÷ 12 = 6 · 8 ÷ 2 = 4 · 121 ÷ 11 = 11 · 90 ÷ 9 = 10 · 22 ÷ 11 = 2