The Mystery of the Missing Beacon

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

Detective: _____ **Date:** _____

Someone raided the Master Builder's secret storehouse and stole the power beacon! The culprit left blocky tracks all over the craft hall. Solve the math clues to uncover the culprit!

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.

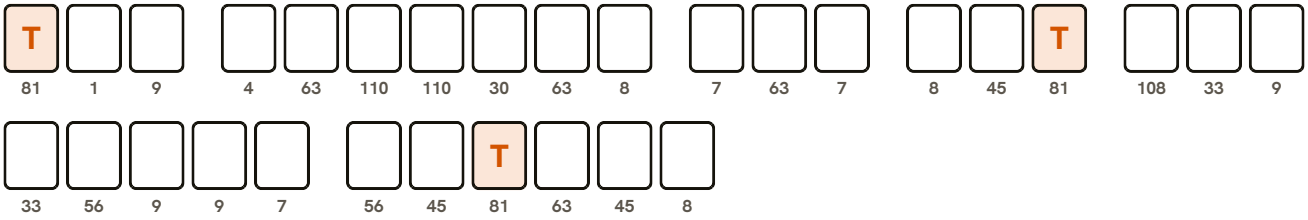
NAME	MAIN SKILL	GEAR PIECE	SWING STYLE	HEADGEAR COLOR	BANE ITEM
Phantom Parker	Obsidian Shield	Golden Apple	Right Handed Swing	Stealth Black Mask	Splash Milk
Blocky Bella	Ender Teleport	Iron Sword	Right Handed Swing	Ender Purple Cap	Splash Milk
Ender Emma	Slime Bounce	Iron Sword	Right Handed Swing	Stealth Black Mask	Splash Milk
Alex Blocksmith	Redstone Spark	Fire Resistance	Left Handed Swing	Stealth Black Mask	Splash Milk
Creepy Caleb	Slime Bounce	Fire Resistance	Right Handed Swing	Ender Purple Cap	Bright Torch
Gravel Gary	Redstone Spark	Fire Resistance	Right Handed Swing	Creeper Green Hood	Water Bucket
Wither Wyatt	TNT Blast	Speed Potion	Right Handed Swing	Creeper Green Hood	Splash Milk
Redstone Riley	Ender Teleport	Iron Sword	Right Handed Swing	Stealth Black Mask	Bright Torch
Crafty Chloe	Ender Teleport	Diamond Armor	Right Handed Swing	Stealth Black Mask	Water Bucket
Bedrock Ben	Redstone Spark	Iron Sword	Right Handed Swing	Stealth Black Mask	Water Bucket
Blaze Brandon	Ender Teleport	Speed Potion	Left Handed Swing	Ender Purple Cap	Water Bucket
Pixel Pete	TNT Blast	Diamond Armor	Right Handed Swing	Creeper Green Hood	Bright Torch
Miner Mike	Obsidian Shield	Iron Sword	Right Handed Swing	Creeper Green Hood	Water Bucket
Sam Stonecutter	TNT Blast	Diamond Armor	Left Handed Swing	Stealth Black Mask	Splash Milk
Zombie Zach	TNT Blast	Iron Sword	Right Handed Swing	Stealth Black Mask	Splash Milk
Spider Sarah	Redstone Spark	Fire Resistance	Right Handed Swing	Stealth Black Mask	Splash Milk
Cobble Chris	Ender Teleport	Iron Sword	Right Handed Swing	Ender Purple Cap	Bright Torch
Oakley Miner	Ender Teleport	Diamond Armor	Left Handed Swing	Stealth Black Mask	Splash Milk
Skelly Sean	TNT Blast	Speed Potion	Right Handed Swing	Stealth Black Mask	Splash Milk
Lava Laura	Ender Teleport	Golden Apple	Left Handed Swing	Creeper Green Hood	Bright Torch
Steve Craftsman	Ender Teleport	Golden Apple	Left Handed Swing	Creeper Green Hood	Water Bucket

make your own at mathcrackers.com

CLUE 1 Multiplication facts (1-12)

You count the rows of iron blocks stacked outside the storehouse to decipher the first note.

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



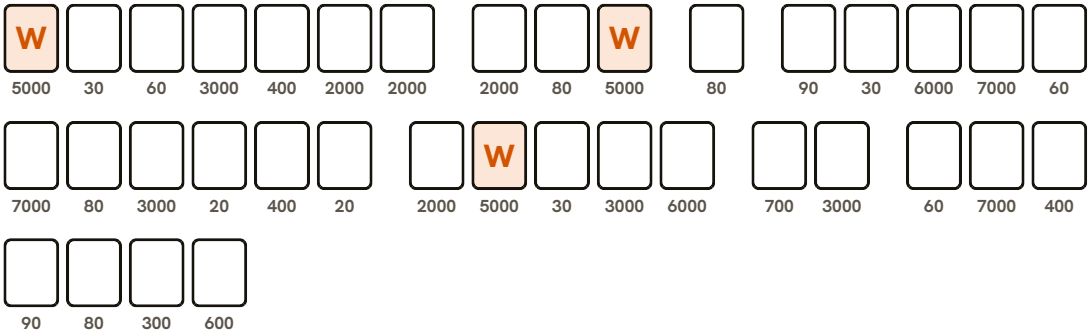
9 × 9 = ☐ → T	5 × 6 = ☐ → A	4 × 1 = ☐ → V	11 × 3 = ☐ → S
7 × 9 = ☐ → I	1 × 7 = ☐ → D	7 × 8 = ☐ → P	9 × 5 = ☐ → O
10 × 11 = ☐ → L	9 × 12 = ☐ → U	8 × 1 = ☐ → N	
1 × 1 = ☐ → H	3 × 3 = ☐ → E		

Scratch space:

CLUE 2 Rounding

The pixel sensor on the craft desk rounded the weight of the missing items.

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



Round 4,574 to the nearest thousand ☐ → W

Round 91 to the nearest ten ☐ → R

Round 716 to the nearest hundred ☐ → O

Round 359 to the nearest hundred ☐ → E

Round 339 to the nearest hundred ☐ → M

Round 20 to the nearest ten ☐ → D

Round 61 to the nearest ten ☐ → T

Round 29 to the nearest ten ☐ → I

Round 7,306 to the nearest thousand ☐ → H

Round 3,099 to the nearest thousand ☐ → N

Round 571 to the nearest hundred ☐ → P

Round 1,992 to the nearest thousand ☐ → S

Round 84 to the nearest ten ☐ → A

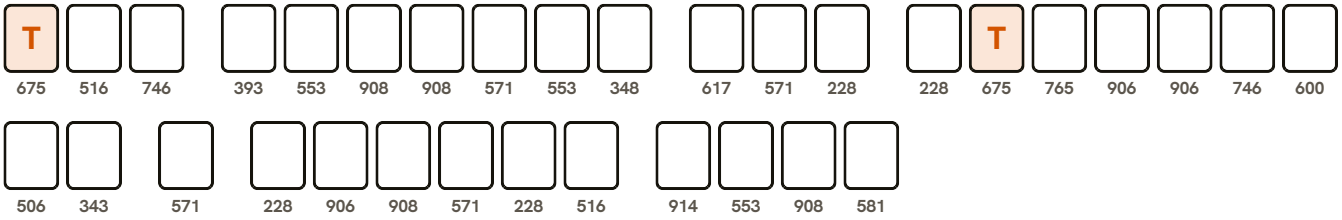
Round 5,799 to the nearest thousand ☐ → G

Scratch space:

CLUE 3 Addition

You tally all the broken torches found along the getaway path.

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



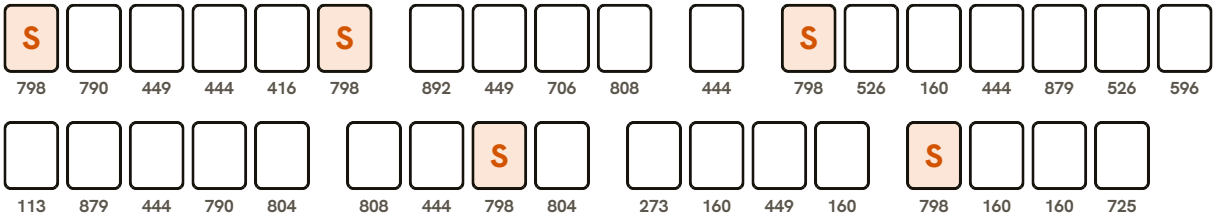
244 + 431 = ☐ → T	222 + 121 = ☐ → Y	218 + 382 = ☐ → D
496 + 412 = ☐ → L	266 + 315 = ☐ → K	442 + 472 = ☐ → M
239 + 507 = ☐ → E	175 + 341 = ☐ → H	266 + 305 = ☐ → A
122 + 226 = ☐ → N	289 + 217 = ☐ → B	335 + 571 = ☐ → P
258 + 507 = ☐ → O	266 + 127 = ☐ → V	99 + 129 = ☐ → S
261 + 356 = ☐ → W	210 + 343 = ☐ → I	

Scratch space:

CLUE 4 Subtraction

You calculate how many emeralds were left behind in the chest.

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



1100 - 302 = ☐ → S

1086 - 207 = ☐ → L

1119 - 394 = ☐ → N

790 - 194 = ☐ → H

885 - 359 = ☐ → T

199 - 39 = ☐ → E

535 - 262 = ☐ → W

904 - 198 = ☐ → O

605 - 156 = ☐ → R

1139 - 335 = ☐ → K

966 - 176 = ☐ → C

1015 - 123 = ☐ → F

461 - 17 = ☐ → A

974 - 166 = ☐ → M

213 - 100 = ☐ → B

688 - 272 = ☐ → P

Scratch space:

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

> You divide the remaining golden apples equally into chests to unlock the final log.

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:

45 ÷ 5 = ☐ | 33 ÷ 11 = ☐ | 32 ÷ 4 = ☐ | 20 ÷ 4 = ☐ | 6 ÷ 3 = ☐

28 ÷ 4 = ☐ | 108 ÷ 9 = ☐ | 48 ÷ 12 = ☐ | 11 ÷ 1 = ☐ | 70 ÷ 7 = ☐

42 ÷ 7 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain bounces on slime blocks, then swings an iron sword.
2. The villain builds obsidian walls, then brews a speed potion.
3. The villain builds obsidian walls, then eats a golden apple.
4. The villain teleports through ender portals, then swings an iron sword.
5. The villain triggers tnt explosions, then drinks fire resistance.
6. The villain teleports through ender portals, then drinks fire resistance.
7. The villain bounces on slime blocks, then brews a speed potion.
8. The villain sparks redstone circuits, then drinks fire resistance.
9. The villain triggers tnt explosions, then swings an iron sword.
10. The villain bounces on slime blocks, then puts on diamond armor.
11. The villain builds obsidian walls, then drinks fire resistance.
12. The villain teleports through ender portals, then brews a speed potion.

TEACHER / PARENT

Answer Key

The Mystery of the Missing Beacon

Culprit: Ender Emma

Slime Bounce · Iron Sword · Right Handed Swing · Stealth Black Mask · Splash Milk

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DID NOT USE SPEED POTION"

9 × 9 = 81 (T) · 5 × 6 = 30 (A) · 4 × 1 = 4 (V) · 11 × 3 = 33 (S) · 7 × 9 = 63 (I) · 1 × 7 = 7 (D) · 7 × 8 = 56 (P) · 9 × 5 = 45 (O) · 10 × 11 = 110 (L) · 9 × 12 = 108 (U) · 8 × 1 = 8 (N) · 1 × 1 = 1 (H) · 3 × 3 = 9 (E)

Clue 2 (Rounding): "WITNESS SAW A RIGHT HANDED SWING ON THE RAMP"

Round 4,574 to the nearest thousand = 5000 (W) · Round 91 to the nearest ten = 90 (R) · Round 716 to the nearest hundred = 700 (O) · Round 359 to the nearest hundred = 400 (E) · Round 339 to the nearest hundred = 300 (M) · Round 20 to the nearest ten = 20 (D) · Round 61 to the nearest ten = 60 (T) · Round 29 to the nearest ten = 30 (I) · Round 7,306 to the nearest thousand = 7000 (H) · Round 3,099 to the nearest thousand = 3000 (N) · Round 571 to the nearest hundred = 600 (P) · Round 1,992 to the nearest thousand = 2000 (S) · Round 84 to the nearest ten = 80 (A) · Round 5,799 to the nearest thousand = 6000 (G)

Clue 3 (Addition): "THE VILLAIN WAS STOPPED BY A SPLASH MILK"

244 + 431 = 675 (T) · 222 + 121 = 343 (Y) · 218 + 382 = 600 (D) · 496 + 412 = 908 (L) · 266 + 315 = 581 (K) · 442 + 472 = 914 (M) · 239 + 507 = 746 (E) · 175 + 341 = 516 (H) · 266 + 305 = 571 (A) · 122 + 226 = 348 (N) · 289 + 217 = 506 (B) · 335 + 571 = 906 (P) · 258 + 507 = 765 (O) · 266 + 127 = 393 (V) · 99 + 129 = 228 (S) · 261 + 356 = 617 (W) · 210 + 343 = 553 (I)

Clue 4 (Subtraction): "SCRAPS FROM A STEALTH BLACK MASK WERE SEEN"

1100 - 302 = 798 (S) · 1086 - 207 = 879 (L) · 1119 - 394 = 725 (N) · 790 - 194 = 596 (H) · 885 - 359 = 526 (T) · 199 - 39 = 160 (E) · 535 - 262 = 273 (W) · 904 - 198 = 706 (O) · 605 - 156 = 449 (R) · 1139 - 335 = 804 (K) · 966 - 176 = 790 (C) · 1015 - 123 = 892 (F) · 461 - 17 = 444 (A) · 974 - 166 = 808 (M) · 213 - 100 = 113 (B) · 688 - 272 = 416 (P)

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

45 ÷ 5 = 9 · 33 ÷ 11 = 3 · 32 ÷ 4 = 8 · 20 ÷ 4 = 5 · 6 ÷ 3 = 2 · 28 ÷ 4 = 7 · 108 ÷ 9 = 12 · 48 ÷ 12 = 4 · 11 ÷ 1 = 11 · 70 ÷ 7 = 10 · 42 ÷ 7 = 6