



The Netherite Star Mystery

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

Detective: _____ Date: _____

Someone snuck into the Server Admin's vault and swiped the legendary Netherite Star! We need to find the Rogue Crafter before they use it to flood the spawn town 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 Rogue Crafter is _____

Possible suspects

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

NAME	PRIMARY TOOL	ARMOR ENCHANT	DOMINANT HAND	HEADGEAR	COUNTER-ITEM
Tommy	Spawn Egg	Feather Falling	right-handed	Ender Crown	Snowballs
Ranboo	Water Bucket	Feather Falling	left-handed	Ender Crown	Splash Water Bottle
George	Water Bucket	Protection IV	right-handed	Ender Crown	Splash Water Bottle
Mumbo	Spawn Egg	Thorns	left-handed	Slime Mask	Splash Water Bottle
Quackity	Spawn Egg	Feather Falling	left-handed	Ender Crown	Snowballs
DanTDM	Spawn Egg	Feather Falling	right-handed	Ender Crown	Milk Bucket
Grian	Redstone TNT	Fire Protection	right-handed	Creeper Hood	Splash Water Bottle
Puffy	Redstone TNT	Feather Falling	right-handed	Creeper Hood	Splash Water Bottle
Dream	Spawn Egg	Feather Falling	right-handed	Ender Crown	Splash Water Bottle
Sam	Spawn Egg	Feather Falling	right-handed	Creeper Hood	Milk Bucket
Stampy	Fire Charge	Feather Falling	right-handed	Creeper Hood	Snowballs
Purpled	Lava Bucket	Feather Falling	right-handed	Ender Crown	Splash Water Bottle
CaptainSparklez	Fire Charge	Thorns	right-handed	Creeper Hood	Splash Water Bottle
Alex	Redstone TNT	Protection IV	right-handed	Creeper Hood	Splash Water Bottle
Steve	Redstone TNT	Protection IV	right-handed	Creeper Hood	Milk Bucket
Philza	Fire Charge	Fire Protection	right-handed	Slime Mask	Splash Water Bottle
BadBoyHalo	Lava Bucket	Blast Protection	right-handed	Creeper Hood	Splash Water Bottle
Antfrost	Fire Charge	Feather Falling	right-handed	Slime Mask	Splash Water Bottle
Hannah	Lava Bucket	Protection IV	left-handed	Ender Crown	Splash Water Bottle
Techno	Water Bucket	Feather Falling	right-handed	Ender Crown	Snowballs
Sapnap	Fire Charge	Blast Protection	left-handed	Creeper Hood	Splash Water Bottle

CLUE 1 Addition

We tally up the leftover blocks in the storage chest to see what is missing.

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

T																T
5718	3296	2244	8868	5409	8281	8281	8946	5409	7434	7024	7509	2244	7087	7434	7509	5718

			T					
7317	7087	2244	5718	3296	7509	2198	7434	7087

$3270 + 2448 = \square \rightarrow \text{T}$	$833 + 1411 = \square \rightarrow \text{E}$	$1005 + 1193 = \square \rightarrow \text{R}$
$3312 + 3775 = \square \rightarrow \text{S}$	$2324 + 4993 = \square \rightarrow \text{U}$	$2778 + 6090 = \square \rightarrow \text{V}$
$2712 + 6234 = \square \rightarrow \text{A}$	$4592 + 2917 = \square \rightarrow \text{O}$	$2198 + 1098 = \square \rightarrow \text{H}$
$2942 + 2467 = \square \rightarrow \text{I}$	$4398 + 3036 = \square \rightarrow \text{N}$	$4856 + 2168 = \square \rightarrow \text{D}$
$5165 + 3116 = \square \rightarrow \text{L}$		

Scratch space:

Subtraction

The Rogue Crafter triggered a arrow trap and lost several hearts of health during their escape.

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

4345 6167 8974 1113 3445 2774 4176 1245 1245 4991 4176 2823 8681 3783 2314 1113 8552 3362 2823 8974

2774 4176 8681 6167 4345 6167 2314 2823 8552 8974 8552

$$8602 - 4257 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$3894 - 1120 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$8481 - 2314 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$7635 - 3459 = \boxed{} \rightarrow \boxed{}$$

$$7335 - 4512 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2528 - 1415 = \boxed{} \rightarrow \boxed{\text{S}}$$

$13109 - 4135 = \boxed{} \rightarrow \boxed{\text{E}}$

$$4339 - 556 = \boxed{} \rightarrow \boxed{\text{W}}$$

$9169 - 488 = \boxed{} \rightarrow \boxed{\text{G}}$

$1557 - 312 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$13159 - 4607 = \boxed{} \rightarrow \boxed{\text{D}}$

4544 - 2230 = → **A**

$$7051 - 3689 = \boxed{} \rightarrow \boxed{\mathbf{0}}$$

$$7461 - 4016 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$7503 - 2512 = \boxed{} \rightarrow \boxed{\text{L}}$$

Scratch space:

CLUE 3

Multiplication facts (1-12)

We check the pumpkin patch where blocks are planted in neat, matching rows.

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

T																
110	30	63	22	10	99	99	7	10	3	84	7	3	120	84	35	28

								T		
121	64	99	7	121	30	72	7	110	63	84

$10 \times 11 = \square \rightarrow \boxed{\text{T}}$

$5 \times 2 = \square \rightarrow \boxed{\text{I}}$

$1 \times 3 = \square \rightarrow \boxed{\text{N}}$

$11 \times 2 = \square \rightarrow \boxed{\text{V}}$

$8 \times 8 = \square \rightarrow \boxed{\text{P}}$

$6 \times 12 = \square \rightarrow \boxed{\text{W}}$

$10 \times 12 = \square \rightarrow \boxed{\text{F}}$

$7 \times 9 = \square \rightarrow \boxed{\text{E}}$

$7 \times 4 = \square \rightarrow \boxed{\text{M}}$

$7 \times 12 = \square \rightarrow \boxed{\text{R}}$

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

$3 \times 10 = \square \rightarrow \boxed{\text{H}}$

$7 \times 1 = \square \rightarrow \boxed{\text{A}}$

$7 \times 5 = \square \rightarrow \boxed{\text{O}}$

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

Scratch space:

CLUE 4

Rounding

Our map device is glitchy and only shows rounded coordinates for the last teleport.

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

W

9000

50

170

1100

5000

3000

20

7000

30

300

50

50

3000

2900

300

50

50

430

50

300

1300

1100

1100

20

4300

1300

300

50

7000

20

Round 9,321 to the nearest thousand

→

W

Round 284 to the nearest hundred

→

R

Round 26 to the nearest ten

→

G

Round 169 to the nearest ten

→

F

Round 3,394 to the nearest thousand

→

N

Round 1,134 to the nearest hundred

→

O

Round 428 to the nearest ten

→

P

Round 2,910 to the nearest hundred

→

C

Round 4,993 to the nearest thousand

→

U

Round 53 to the nearest ten

→

E

Round 4,304 to the nearest hundred

→

T

Round 1,347 to the nearest hundred

→

H

Round 6,944 to the nearest thousand

→

A

Round 22 to the nearest ten

→

D

Scratch space:

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

We split the remaining golden apples equally among the search team members.

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:

$15 \div 5 = \boxed{}$

$30 \div 5 = \boxed{}$

$25 \div 5 = \boxed{}$

$12 \div 12 = \boxed{}$

$36 \div 9 = \boxed{}$

$77 \div 7 = \boxed{}$

$30 \div 3 = \boxed{}$

$24 \div 12 = \boxed{}$

$21 \div 3 = \boxed{}$

$40 \div 5 = \boxed{}$

$48 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain tossed a Spawn Egg, then damaged the pursuer using Thorns.
2. The villain tossed a Spawn Egg, then survived the blast with Blast Protection.
3. The villain placed Redstone TNT, then landed safely using Feather Falling.
4. The villain sparked a Fire Charge, then walked through the flames with Fire Protection.
5. The villain poured a Lava Bucket, then survived the blast with Blast Protection.
6. The villain placed Redstone TNT, then shrugged off arrows with Protection IV.
7. The villain splashed a Water Bucket, then survived the blast with Blast Protection.
8. The villain poured a Lava Bucket, then damaged the pursuer using Thorns.
9. The villain placed Redstone TNT, then walked through the flames with Fire Protection.
10. The villain splashed a Water Bucket, then damaged the pursuer using Thorns.
11. The villain splashed a Water Bucket, then shrugged off arrows with Protection IV.
12. The villain poured a Lava Bucket, then walked through the flames with Fire Protection.

Answer Key

The Netherite Star Mystery

Culprit: Grian

Redstone TNT · Fire Protection · right-handed · Creeper Hood · Splash Water Bottle

Trail: Start 21 → Clue 1 19 → Clue 2 15 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE THORNS"

$3270 + 2448 = 5718$ (T) · $833 + 1411 = 2244$ (E) · $1005 + 1193 = 2198$ (R) · $3312 + 3775 = 7087$ (S) · $2324 + 4993 = 7317$ (U) · $2778 + 6090 = 8868$ (V) · $2712 + 6234 = 8946$ (A) · $4592 + 2917 = 7509$ (O) · $2198 + 1098 = 3296$ (H) · $2942 + 2467 = 5409$ (I) · $4398 + 3036 = 7434$ (N) · $4856 + 2168 = 7024$ (D) · $5165 + 3116 = 8281$ (L)

Clue 2 (Subtraction): "THE SCRIBBLING WAS DONE RIGHT HANDED"

$8602 - 4257 = 4345$ (T) · $3894 - 1120 = 2774$ (R) · $8481 - 2314 = 6167$ (H) · $7635 - 3459 = 4176$ (I) · $7335 - 4512 = 2823$ (N) · $2528 - 1415 = 1113$ (S) · $13109 - 4135 = 8974$ (E) · $4339 - 556 = 3783$ (W) · $9169 - 488 = 8681$ (G) · $1557 - 312 = 1245$ (B) · $13159 - 4607 = 8552$ (D) · $4544 - 2230 = 2314$ (A) · $7051 - 3689 = 3362$ (O) · $7461 - 4016 = 3445$ (C) · $7503 - 2512 = 4991$ (L)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN RAN FROM SPLASH WATER"

$10 \times 11 = 110$ (T) · $5 \times 2 = 10$ (I) · $1 \times 3 = 3$ (N) · $11 \times 2 = 22$ (V) · $8 \times 8 = 64$ (P) · $6 \times 12 = 72$ (W) · $10 \times 12 = 120$ (F) · $7 \times 9 = 63$ (E) · $7 \times 4 = 28$ (M) · $7 \times 12 = 84$ (R) · $11 \times 11 = 121$ (S) · $3 \times 10 = 30$ (H) · $7 \times 1 = 7$ (A) · $7 \times 5 = 35$ (O) · $9 \times 11 = 99$ (L)

Clue 4 (Rounding): "WE FOUND A GREEN CREEPER HOOD THREAD"

Round 9,321 to the nearest thousand = 9000 (W) · Round 284 to the nearest hundred = 300 (R) · Round 26 to the nearest ten = 30 (G) · Round 169 to the nearest ten = 170 (F) · Round 3,394 to the nearest thousand = 3000 (N) · Round 1,134 to the nearest hundred = 1100 (O) · Round 428 to the nearest ten = 430 (P) · Round 2,910 to the nearest hundred = 2900 (C) · Round 4,993 to the nearest thousand = 5000 (U) · Round 53 to the nearest ten = 50 (E) · Round 4,304 to the nearest hundred = 4300 (T) · Round 1,347 to the nearest hundred = 1300 (H) · Round 6,944 to the nearest thousand = 7000 (A) · Round 22 to the nearest ten = 20 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Grian

$15 \div 5 = 3$ · $30 \div 5 = 6$ · $25 \div 5 = 5$ · $12 \div 12 = 1$ · $36 \div 9 = 4$ · $77 \div 7 = 11$ · $30 \div 3 = 10$ · $24 \div 12 = 2$ · $21 \div 3 = 7$ · $40 \div 5 = 8$ · $48 \div 4 = 12$