



The Mystery of the Spawner Heist

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

Detective: _____ Date: _____

A sneaky griefer broke into the main spawn temple and stole the legendary Golden Apple! The Server Host needs your help to track down the culprit before they wreck the entire village.

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 Builder is _____

Possible suspects

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

NAME	SPECIAL SKILL	IN-GAME GEAR	HAND SETTINGS	CHARACTER HAIR COLOR	ITEM WEAKNESS
Jen	redstone wiring	lava immunity	left handed	brown hair	snowballs
George	elytra flying	pumpkin helmet	right handed	brown hair	splash potions
Tommy	redstone wiring	enchanted sword	left handed	brown hair	snowballs
Jeb	redstone wiring	diamond armor	left handed	brown hair	snowballs
BadBoy	potion brewing	lava immunity	right handed	green hair	water buckets
Steve	potion brewing	pumpkin helmet	left handed	blue hair	water buckets
Dream	iron golem strength	wolf pack	right handed	brown hair	splash potions
Pat	potion brewing	wolf pack	right handed	blue hair	snowballs
Alex	ender teleport	lava immunity	right handed	blue hair	snowballs
Philza	iron golem strength	diamond armor	left handed	green hair	snowballs
Logdot	redstone wiring	wolf pack	left handed	blue hair	splash potions
Notch	ender teleport	lava immunity	right handed	blue hair	splash potions
DanTDM	ender teleport	enchanted sword	right handed	green hair	water buckets
Tubbo	ender teleport	enchanted sword	left handed	blue hair	snowballs
Aphmau	iron golem strength	pumpkin helmet	right handed	blue hair	water buckets
Skeppy	iron golem strength	wolf pack	left handed	blue hair	snowballs
Unspeakable	ender teleport	pumpkin helmet	left handed	blue hair	snowballs
Preston	potion brewing	diamond armor	left handed	blue hair	snowballs
Ranboo	redstone wiring	pumpkin helmet	right handed	green hair	water buckets
Lizzie	elytra flying	wolf pack	left handed	blue hair	snowballs
Mumbo	iron golem strength	diamond armor	left handed	green hair	water buckets

CLUE 1 Place value

To open the first security vault, we need to read the server coordinate map. Look at the digit cards to find the values of the hundreds and tens blocks.

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

T			T												T
30	700	900	30	700	8000	900	400	8000	20	5000	7000	30			
50	900	100	6000	8000	5000	800	100	4000	2000	10	4000	200	8000	5000	
						T									
700	900	1000	10	900	30										

What is the value of the 3 in 235?

→

T

What is the value of the 6 in 96,710?

→

R

What is the value of the 2 in 271?

→

K

What is the value of the 7 in 732?

→

H

What is the value of the 9 in 903?

→

E

What is the value of the 1 in 1,307?

→

L

What is the value of the 5 in 357?

→

W

What is the value of the 7 in 7,829?

→

O

What is the value of the 8 in 38,446?

→

I

What is the value of the 4 in 461?

→

F

What is the value of the 4 in 24,202?

→

P

What is the value of the 1 in 718?

→

M

What is the value of the 2 in 52,846?

→

U

What is the value of the 8 in 9,800?

→

G

What is the value of the 1 in 182?

→

A

What is the value of the 5 in 25,816?

→

N

What is the value of the 2 in 5,924?

→

S

Scratch space:

CLUE 2

Multiplication facts (1-12)

The robber left behind rows of redstone torches in the cave. To find the total number of items they dropped, we must multiply the rows by the columns.

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

T																
49	35	56	28	32	72	110	1	72	56	72	63	99	100	28	72	90

		T		T						T						
1	36	49	32	49	32	72	99	72	144	49	32	100	50	90		

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

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

$12 \times 3 = \square \rightarrow \boxed{\text{I}}$

$10 \times 5 = \square \rightarrow \boxed{\text{N}}$

$10 \times 10 = \square \rightarrow \boxed{\text{A}}$

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

$8 \times 7 = \square \rightarrow \boxed{\text{R}}$

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

$4 \times 8 = \square \rightarrow \boxed{\text{H}}$

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

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

$10 \times 9 = \square \rightarrow \boxed{\text{D}}$

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

$1 \times 1 = \square \rightarrow \boxed{\text{W}}$

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

Scratch space:

CLUE 3

Subtraction

The castle wall took some heavy damage from a creeper blast. If we subtract the destroyed stone blocks from the original wall size, we get our next clue.

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

T								T												
8159	6614	1998	4583	2859	3430	4111	8159	1998	2102	4111	6614	2102	2173	3430	7166	2205	2102	2859	4583	
5251	2859	1426	3194	4111	3430	2859	2843	8324	2173	1426	1426	4111								

$8781 - 622 = \square \rightarrow \boxed{\text{T}}$

$3966 - 536 = \square \rightarrow \boxed{\text{N}}$

$9052 - 4469 = \square \rightarrow \boxed{\text{M}}$

$5516 - 2673 = \square \rightarrow \boxed{\text{W}}$

$6986 - 4813 = \square \rightarrow \boxed{\text{A}}$

$8656 - 2042 = \square \rightarrow \boxed{\text{H}}$

$9751 - 2585 = \square \rightarrow \boxed{\text{K}}$

$9854 - 4603 = \square \rightarrow \boxed{\text{C}}$

$2506 - 508 = \square \rightarrow \boxed{\text{E}}$

$4854 - 3428 = \square \rightarrow \boxed{\text{L}}$

$5645 - 1534 = \square \rightarrow \boxed{\text{S}}$

$4529 - 1670 = \square \rightarrow \boxed{\text{O}}$

$7961 - 4767 = \square \rightarrow \boxed{\text{D}}$

$12246 - 3922 = \square \rightarrow \boxed{\text{B}}$

$5285 - 3183 = \square \rightarrow \boxed{\text{R}}$

$6012 - 3807 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 4 Addition

The local blacksmith wants to check the iron supply. By adding the new iron bars to the old blocks in the chest, we can unlock the secret diary.

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

A				A								A		
3169	7112	8905	8310	3169	8033	6768	8310	8033	2157	7753	9243	3169	2049	7510

			A				A								
7422	6768	7510	3169	4998	7462	5554	3169	7422	8905	4998	6768	9243	7753	7112	9243

$1996 + 1173 = \boxed{} \rightarrow \boxed{\text{A}}$

$3971 + 3782 = \boxed{} \rightarrow \boxed{\text{E}}$

$3698 + 3414 = \boxed{} \rightarrow \boxed{\text{C}}$

$718 + 1439 = \boxed{} \rightarrow \boxed{\text{U}}$

$4783 + 3527 = \boxed{} \rightarrow \boxed{\text{B}}$

$4309 + 3724 = \boxed{} \rightarrow \boxed{\text{L}}$

$4050 + 5193 = \boxed{} \rightarrow \boxed{\text{H}}$

$1091 + 958 = \boxed{} \rightarrow \boxed{\text{I}}$

$3295 + 1703 = \boxed{} \rightarrow \boxed{\text{N}}$

$2174 + 4594 = \boxed{} \rightarrow \boxed{\text{T}}$

$4866 + 4039 = \boxed{} \rightarrow \boxed{\text{O}}$

$4041 + 3421 = \boxed{} \rightarrow \boxed{\text{D}}$

$3930 + 3580 = \boxed{} \rightarrow \boxed{\text{R}}$

$4306 + 3116 = \boxed{} \rightarrow \boxed{\text{S}}$

$2919 + 2635 = \boxed{} \rightarrow \boxed{\text{W}}$

Scratch space:

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

We found a small bag of emeralds near the portal. If we divide the emeralds equally among the five village guards, the leftover amount tells us the hair color.

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:

$12 \div 3 = \boxed{}$

$77 \div 11 = \boxed{}$

$8 \div 1 = \boxed{}$

$6 \div 3 = \boxed{}$

$54 \div 9 = \boxed{}$

$3 \div 1 = \boxed{}$

$110 \div 11 = \boxed{}$

$88 \div 8 = \boxed{}$

$12 \div 1 = \boxed{}$

$6 \div 6 = \boxed{}$

$40 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain uses potion brewing, then gains lava immunity.
2. The villain uses redstone wiring, then equips diamond armor.
3. The villain uses ender teleport, then gains lava immunity.
4. The villain uses elytra flying, then summons a wolf pack.
5. The villain uses ender teleport, then wears a pumpkin helmet.
6. The villain uses ender teleport, then equips diamond armor.
7. The villain uses ender teleport, then swings an enchanted sword.
8. The villain uses iron golem strength, then summons a wolf pack.
9. The villain uses potion brewing, then equips diamond armor.
10. The villain uses iron golem strength, then gains lava immunity.
11. The villain uses redstone wiring, then swings an enchanted sword.
12. The villain uses redstone wiring, then summons a wolf pack.

Answer Key

The Mystery of the Spawner Heist

Culprit: Preston

potion brewing · diamond armor · left handed · blue hair · snowballs

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF IS NOT WEARING A PUMPKIN HELMET"

What is the value of the 3 in 235? = 30 (T) · What is the value of the 6 in 96,710? = 6000 (R) · What is the value of the 2 in 271? = 200 (K) · What is the value of the 7 in 732? = 700 (H) · What is the value of the 9 in 903? = 900 (E) · What is the value of the 1 in 1,307? = 1000 (L) · What is the value of the 5 in 357? = 50 (W) · What is the value of the 7 in 7,829? = 7000 (O) · What is the value of the 8 in 38,446? = 8000 (I) · What is the value of the 4 in 461? = 400 (F) · What is the value of the 4 in 24,202? = 4000 (P) · What is the value of the 1 in 718? = 10 (M) · What is the value of the 2 in 52,846? = 2000 (U) · What is the value of the 8 in 9,800? = 800 (G) · What is the value of the 1 in 182? = 100 (A) · What is the value of the 5 in 25,816? = 5000 (N) · What is the value of the 2 in 5,924? = 20 (S)

Clue 2 (Multiplication facts (1-12)): "TORCHES WERE PLACED WITH THE LEFT HAND"

$7 \times 7 = 49$ (T) · $7 \times 9 = 63$ (P) · $12 \times 3 = 36$ (I) · $10 \times 5 = 50$ (N) · $10 \times 10 = 100$ (A) · $9 \times 8 = 72$ (E) · $8 \times 7 = 56$ (R) · $11 \times 10 = 110$ (S) · $4 \times 8 = 32$ (H) · $12 \times 12 = 144$ (F) · $11 \times 9 = 99$ (L) · $10 \times 9 = 90$ (D) · $7 \times 4 = 28$ (C) · $1 \times 1 = 1$ (W) · $5 \times 7 = 35$ (O)

Clue 3 (Subtraction): "THE MONSTER SHRANK FROM COLD SNOWBALLS"

$8781 - 622 = 8159$ (T) · $3966 - 536 = 3430$ (N) · $9052 - 4469 = 4583$ (M) · $5516 - 2673 = 2843$ (W) · $6986 - 4813 = 2173$ (A) · $8656 - 2042 = 6614$ (H) · $9751 - 2585 = 7166$ (K) · $9854 - 4603 = 5251$ (C) · $2506 - 508 = 1998$ (E) · $4854 - 3428 = 1426$ (L) · $5645 - 1534 = 4111$ (S) · $4529 - 1670 = 2859$ (O) · $7961 - 4767 = 3194$ (D) · $12246 - 3922 = 8324$ (B) · $5285 - 3183 = 2102$ (R) · $6012 - 3807 = 2205$ (F)

Clue 4 (Addition): "A COBALT BLUE HAIR STRAND WAS ON THE CHEST"

$1996 + 1173 = 3169$ (A) · $3971 + 3782 = 7753$ (E) · $3698 + 3414 = 7112$ (C) · $718 + 1439 = 2157$ (U) · $4783 + 3527 = 8310$ (B) · $4309 + 3724 = 8033$ (L) · $4050 + 5193 = 9243$ (H) · $1091 + 958 = 2049$ (I) · $3295 + 1703 = 4998$ (N) · $2174 + 4594 = 6768$ (T) · $4866 + 4039 = 8905$ (O) · $4041 + 3421 = 7462$ (D) · $3930 + 3580 = 7510$ (R) · $4306 + 3116 = 7422$ (S) · $2919 + 2635 = 5554$ (W)

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

$12 \div 3 = 4$ · $77 \div 11 = 7$ · $8 \div 1 = 8$ · $6 \div 3 = 2$ · $54 \div 9 = 6$ · $3 \div 1 = 3$ · $110 \div 11 = 10$ · $88 \div 8 = 11$ · $12 \div 1 = 12$ · $6 \div 6 = 1$ · $40 \div 8 = 5$