



The Great Spawn Griefer

Grade 6 math · Fractions of a number, Multi-step word problems, Word problems, Percentages · Reading level grades 5-6

Detective: _____ **Date:** _____

Someone has ruined the grand spawn castle on the Craftia Server! They flooded the lobby with lava and trapped the Server Admin in bedrock. We must find 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	PRIMARY SKILL	SECONDARY ABILITY	COMBAT STANCE	AVATAR HAIR COLOR	IN-GAME WEAKNESS
Alex	Ender pearl teleporting	Armor enchanting	Right handed shield holder	Black hair	Punch bow
Steve	Phantom elytra flying	Redstone wiring	Left handed shield holder	Blonde hair	Punch bow
DanTDM	Speed block bridging	Map making	Left handed shield holder	Green hair	Punch bow
George	Ender pearl teleporting	Armor enchanting	Left handed shield holder	Blonde hair	Golden apple
Wilbur	Phantom elytra flying	Potion brewing	Left handed shield holder	Black hair	Golden apple
Ranboo	Speed block bridging	Wolf taming	Right handed shield holder	Black hair	Golden apple
Grian	Lava bucket placing	Map making	Left handed shield holder	Black hair	Water bucket
Tubbo	Lava bucket placing	Potion brewing	Left handed shield holder	Green hair	Water bucket
Joel	Lava bucket placing	Wolf taming	Left handed shield holder	Blonde hair	Golden apple
AntVenom	TNT block igniting	Map making	Right handed shield holder	Green hair	Water bucket
Stampy	Phantom elytra flying	Armor enchanting	Left handed shield holder	Green hair	Water bucket
Notch	Speed block bridging	Potion brewing	Left handed shield holder	Green hair	Golden apple
Mumbo	Phantom elytra flying	Redstone wiring	Left handed shield holder	Green hair	Punch bow
Aphmau	Phantom elytra flying	Map making	Left handed shield holder	Green hair	Punch bow
Jeb	Speed block bridging	Potion brewing	Left handed shield holder	Black hair	Punch bow
Lizzie	Speed block bridging	Wolf taming	Left handed shield holder	Green hair	Punch bow
PopularMMOs	Speed block bridging	Potion brewing	Right handed shield holder	Green hair	Punch bow
Tommy	Phantom elytra flying	Armor enchanting	Left handed shield holder	Green hair	Punch bow
Skeppy	Ender pearl teleporting	Wolf taming	Right handed shield holder	Green hair	Punch bow
BadBoyHalo	Speed block bridging	Redstone wiring	Right handed shield holder	Blonde hair	Water bucket
Philza	Lava bucket placing	Armor enchanting	Left handed shield holder	Black hair	Punch bow

Fractions of a number

We need to calculate how many iron ingots the griefer stole. They took three full chests, lost some while dodging a creeper, and crafted the rest into blocks.

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

A number line from 0 to 100. The line is divided into 10 equal segments, each containing a box. The boxes are arranged in two rows of five. The numbers 5, 20, 8, 14, 18, 11, 8, 29, 8, 18, 36, 31, 8, 25, 21, 31, and 5 are written below the boxes. The boxes at positions 5, 20, 8, 14, 18, 11, 8, 29, 8, 18, 36, 31, 8, 25, 21, 31, and 5 are highlighted in orange and contain the letter 'T'. The boxes at positions 1, 3, 7, 9, 13, 15, 17, 19, 23, 27, 29, 33, 35, 37, 39, 43, 47, 49, 51, 53, 55, 59, 63, 65, 67, 69, 73, 77, 79, 83, 87, 89, 93, 97, and 99 are empty.

$\frac{1}{2}$ of 10 = $\rightarrow$ **T**

$\frac{2}{3}$ of 12 = $\rightarrow$ **E**

$\frac{3}{4}$ of 48 = $\rightarrow$ **D**

3/6 of 62 = → **0**

$2/8$ of $44 = \square \rightarrow \boxed{\text{I}}$

$4/6$ of $3 = \square \rightarrow \boxed{\text{C}}$

$$2/6 \text{ of } 54 = \boxed{} \rightarrow \boxed{\text{R}}$$

$1/6 \text{ of } 138 = \boxed{} \rightarrow \boxed{\text{M}}$

$$\frac{2}{4} \text{ of } 50 = \boxed{} \rightarrow \boxed{\text{S}}$$

$2/8$ of 52 = $\rightarrow$ **A**

6/10 of 35 = → **N**

$$\frac{1}{5} \text{ of } 145 = \boxed{} \rightarrow \boxed{\text{F}}$$

$2/5$ of 35 = → **G**

$$\frac{1}{5} \text{ of } 100 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 2

Multi-step word problems

To track the griever's movement, we must figure out what fraction of our redstone dust trail was swept away by the water flow.

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

A witness saw the villain was

L							D		D	S		I		L	D		O	L	D		R
36	31	90	37	15	14	80	31			15		31	36		15		36		31		

The Builder filled 7 boxes with 2 diamonds each, then found 22 more diamonds. How many diamonds are there in all?

Answer: → **L**

There were 81 ender pearls in all. 36 ender pearls were set aside. The rest were shared equally among 3 the Build Guild. How many ender pearls did each get?

Answer: → **H**

The Builder filled 3 boxes with 2 redstone dust each, then found 31 more redstone dust. How many redstone dust are there in all?

Answer: → **T**

There were 170 diamonds in all. 15 diamonds were set aside. The rest were shared equally among 5 the Build Guild. How many diamonds did each get?

Answer: → **E**

There were 54 redstone dust in all. 12 redstone dust were set aside. The rest were shared equally among 3 the Build Guild. How many redstone dust did each get?

Answer: → **A**

There were 819 obsidian blocks in all. 19 obsidian blocks were set aside. The rest were shared equally among 10 the Build Guild. How many obsidian blocks did each get?

Answer: → **N**

The Builder earned 3 diamonds in each of 5 rounds, plus 85 bonus diamonds. Then 10 diamonds were lost. How many diamonds are left?

Answer: → **F**

Scratch space:

CLUE 3

Word problems

We found a discarded inventory list near the ruined portal. Solving this shipping manifest puzzle will reveal the suspect's shield preference.

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

Someone scared the villain off with P W .

28 72 113 56 66 111 81

The Builder lined up 4 rows of 7 redstone dust. How many redstone dust in all?

Answer: → P

The Builder found 18 ender pearls yesterday and 38 more today. How many ender pearls in all?

Answer: → C

The Builder lined up 6 rows of 11 ender pearls. How many ender pearls in all?

Answer: → H

The Builder lined up 9 rows of 8 ender pearls. How many ender pearls in all?

Answer: → U

There were 134 golden carrots. 23 were used up. How many golden carrots are left?

Answer: → B

The Builder lined up 9 rows of 9 obsidian blocks. How many obsidian blocks in all?

Answer: → O

The Builder found 103 golden carrots yesterday and 10 more today. How many golden carrots in all?

Answer: → N

Scratch space:

CLUE 4 Percentages

The castle security gate has a damaged durability bar. Calculating the exact percentage of shield energy remaining unlocks the next clue.

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

W															
42	6	37	43	7	18	8	32	5	44	24	18	8	32	43	37
													W		
22	44	6	6	18	28	24	31	44	24	5	32	30	24	42	18

$75\% \text{ of } 56 = \square \rightarrow \text{W}$

$5\% \text{ of } 640 = \square \rightarrow \text{S}$

$40\% \text{ of } 45 = \square \rightarrow \text{N}$

$20\% \text{ of } 110 = \square \rightarrow \text{G}$

$25\% \text{ of } 32 = \square \rightarrow \text{D}$

$60\% \text{ of } 10 = \square \rightarrow \text{E}$

$5\% \text{ of } 860 = \square \rightarrow \text{O}$

$40\% \text{ of } 70 = \square \rightarrow \text{H}$

$20\% \text{ of } 120 = \square \rightarrow \text{A}$

$25\% \text{ of } 148 = \square \rightarrow \text{F}$

$20\% \text{ of } 25 = \square \rightarrow \text{T}$

$25\% \text{ of } 120 = \square \rightarrow \text{P}$

$20\% \text{ of } 35 = \square \rightarrow \text{U}$

$25\% \text{ of } 176 = \square \rightarrow \text{R}$

$5\% \text{ of } 620 = \square \rightarrow \text{I}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

The griefer dropped a pouch of lapis lazuli blocks. Let's calculate the fraction of blocks they lost to find the final clue.

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:

$1/5 \text{ of } 15 = \boxed{}$

$5/10 \text{ of } 22 = \boxed{}$

$3/6 \text{ of } 14 = \boxed{}$

$2/8 \text{ of } 4 = \boxed{}$

$5/6 \text{ of } 12 = \boxed{}$

$2/6 \text{ of } 6 = \boxed{}$

$1/3 \text{ of } 18 = \boxed{}$

$1/5 \text{ of } 25 = \boxed{}$

$1/3 \text{ of } 24 = \boxed{}$

$2/4 \text{ of } 18 = \boxed{}$

$2/6 \text{ of } 36 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain teleported onto the high temple roof using an ender pearl, then enchanted their diamond helmet with protection.
2. The villain teleported onto the high temple roof using an ender pearl, then brewed a splash potion of slowness to escape.
3. The villain soared through the sky wearing a pair of phantom wings, then drew a secret map of the base corridors.
4. The villain bridged across the wide canyon at incredible speed, then drew a secret map of the base corridors.
5. The villain soared through the sky wearing a pair of phantom wings, then enchanted their diamond helmet with protection.
6. The villain bridged across the wide canyon at incredible speed, then enchanted their diamond helmet with protection.
7. The villain soared through the sky wearing a pair of phantom wings, then activated a complex redstone trap in the hallway.
8. The villain lit a massive stack of TNT next to the diamond vaults, then called a pack of tamed wolves to block the path.
9. The villain lit a massive stack of TNT next to the diamond vaults, then drew a secret map of the base corridors.
10. The villain lit a massive stack of TNT next to the diamond vaults, then enchanted their diamond helmet with protection.
11. The villain bridged across the wide canyon at incredible speed, then called a pack of tamed wolves to block the path.
12. The villain dumped a bucket of lava right over the spawn point, then brewed a splash potion of slowness to escape.

Answer Key

The Great Spawn Griefer

Culprit: DanTDM

Speed block bridging · Map making · Left handed shield holder · Green hair · Punch bow

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE GRIEFER DOES NOT ENCHANT ARMOR"

$\frac{1}{2}$ of 10 = 5 (T) · $\frac{2}{3}$ of 12 = 8 (E) · $\frac{3}{4}$ of 48 = 36 (D) · $\frac{3}{6}$ of 62 = 31 (O) · $\frac{2}{8}$ of 44 = 11 (I) · $\frac{4}{6}$ of 3 = 2 (C) · $\frac{2}{6}$ of 54 = 18 (R) · $\frac{1}{6}$ of 138 = 23 (M) · $\frac{2}{4}$ of 50 = 25 (S) · $\frac{2}{8}$ of 52 = 13 (A) · $\frac{6}{10}$ of 35 = 21 (N) · $\frac{1}{5}$ of 145 = 29 (F) · $\frac{2}{5}$ of 35 = 14 (G) · $\frac{1}{5}$ of 100 = 20 (H)

Clue 2 (Multi-step word problems): "LEFT HANDED SHIELD HOLDER"

The Builder filled 7 boxes with 2 diamonds each, then found 22 more diamonds. How many diamonds are there in all? = 36 (L) · There were 81 ender pearls in all. 36 ender pearls were set aside. The rest were shared equally among 3 the Build Guild. How many ender pearls did each get? = 15 (H) · The Builder filled 3 boxes with 2 redstone dust each, then found 31 more redstone dust. How many redstone dust are there in all? = 37 (T) · There were 170 diamonds in all. 15 diamonds were set aside. The rest were shared equally among 5 the Build Guild. How many diamonds did each get? = 31 (E) · There were 54 redstone dust in all. 12 redstone dust were set aside. The rest were shared equally among 3 the Build Guild. How many redstone dust did each get? = 14 (A) · There were 819 obsidian blocks in all. 19 obsidian blocks were set aside. The rest were shared equally among 10 the Build Guild. How many obsidian blocks did each get? = 80 (N) · The Builder earned 3 diamonds in each of 5 rounds, plus 85 bonus diamonds. Then 10 diamonds were lost. How many diamonds are left? = 90 (F)

Clue 3 (Word problems): "PUNCH BOW"

The Builder lined up 4 rows of 7 redstone dust. How many redstone dust in all? = 28 (P) · The Builder found 18 ender pearls yesterday and 38 more today. How many ender pearls in all? = 56 (C) · The Builder lined up 6 rows of 11 ender pearls. How many ender pearls in all? = 66 (H) · The Builder lined up 9 rows of 8 ender pearls. How many ender pearls in all? = 72 (U) · There were 134 golden carrots. 23 were used up. How many golden carrots are left? = 111 (B) · The Builder lined up 9 rows of 9 obsidian blocks. How many obsidian blocks in all? = 81 (O) · The Builder found 103 golden carrots yesterday and 10 more today. How many golden carrots in all? = 113 (N)

Clue 4 (Percentages): "WE FOUND STRANDS OF GREEN HAIR AT SPAWN"

75% of 56 = 42 (W) · 5% of 640 = 32 (S) · 40% of 45 = 18 (N) · 20% of 110 = 22 (G) · 25% of 32 = 8 (D) · 60% of 10 = 6 (E) · 5% of 860 = 43 (O) · 40% of 70 = 28 (H) · 20% of 120 = 24 (A) · 25% of 148 = 37 (F) · 20% of 25 = 5 (T) · 25% of 120 = 30 (P) · 20% of 35 = 7 (U) · 25% of 176 = 44 (R) · 5% of 620 = 31 (I)

Clue 5 (Fractions of a number): surviving statement is box 4 → DanTDM

$\frac{1}{5}$ of 15 = 3 · $\frac{5}{10}$ of 22 = 11 · $\frac{3}{6}$ of 14 = 7 · $\frac{2}{8}$ of 4 = 1 · $\frac{5}{6}$ of 12 = 10 · $\frac{2}{6}$ of 6 = 2 · $\frac{1}{3}$ of 18 = 6 · $\frac{1}{5}$ of 25 = 5 · $\frac{1}{3}$ of 24 = 8 · $\frac{2}{4}$ of 18 = 9 · $\frac{2}{6}$ of 36 = 12