



The DeathRun Trap Sabotage

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

A rogue player has hijacked the DeathRun server controls! They triggered a hidden lava trap at the end of the Castle Ruins map, dropping the Chief Runner into the pit. We need to analyze the server logs and trap data to find the Rogue Killer before the next round begins!

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 Killer is _____

Possible suspects

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

NAME	FAVORITE TRAP	ACTIVE PERK	CLICKING HAND	AVATAR HAT	FOIL PERK
Badcc	Falling Boulder	Shield Charm	Right hand button presser	Black Ninja Hood	Lag Spike
JD	Poison Dart	Double Jump	Right hand button presser	Black Ninja Hood	Lag Spike
Telamon	Lava Pit	Gravity Coil	Left hand button presser	Black Ninja Hood	Lag Spike
Linkmon99	Poison Dart	Gravity Coil	Right hand button presser	Neon Blue Spikes	Lag Spike
Poke	Poison Dart	Time Warp	Right hand button presser	Black Ninja Hood	Ban Hammer
GamingWithKev	Falling Boulder	Speed Coil	Right hand button presser	Black Ninja Hood	Lag Spike
Sub	Poison Dart	Speed Coil	Left hand button presser	Golden Roblox Hair	Lag Spike
MeganPlays	Tricky Bridge	Speed Coil	Right hand button presser	Neon Blue Spikes	Lag Spike
Lando6400	Spike Wall	Shield Charm	Right hand button presser	Neon Blue Spikes	Lag Spike
Zackery	Poison Dart	Speed Coil	Right hand button presser	Neon Blue Spikes	Lag Spike
Preston	Spike Wall	Speed Coil	Right hand button presser	Neon Blue Spikes	Lag Spike
Brianna	Lava Pit	Gravity Coil	Left hand button presser	Black Ninja Hood	Freeze Ray
MyUsernamesThis	Poison Dart	Double Jump	Left hand button presser	Black Ninja Hood	Freeze Ray
Thinknoodles	Spike Wall	Speed Coil	Right hand button presser	Neon Blue Spikes	Ban Hammer
Builderman	Lava Pit	Speed Coil	Left hand button presser	Neon Blue Spikes	Freeze Ray
Sketch	Tricky Bridge	Speed Coil	Left hand button presser	Black Ninja Hood	Ban Hammer
Tofuu	Lava Pit	Double Jump	Left hand button presser	Neon Blue Spikes	Freeze Ray
Alex	Tricky Bridge	Shield Charm	Right hand button presser	Black Ninja Hood	Ban Hammer
Kaden	Lava Pit	Speed Coil	Right hand button presser	Golden Roblox Hair	Ban Hammer
Corl	Spike Wall	Shield Charm	Left hand button presser	Neon Blue Spikes	Lag Spike
Albert	Tricky Bridge	Speed Coil	Left hand button presser	Neon Blue Spikes	Freeze Ray

Fractions of a number

Our system database has locked up, but we can read a tiny fraction of the active player profiles to rule out a perk.

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

A 2x10 grid of boxes. The top row contains the following values from left to right: 'T' (orange), empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty. The bottom row contains the following values from left to right: empty, empty, empty, empty, empty, empty, 'T' (orange), empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty. Below each box is a number. The top row numbers are: 16, 36, 27, 31, 8, 14, 14, 12, 8, 33, 34, 2, 27, 15, 33, 2, 16. The bottom row numbers are: 13, 15, 27, 7, 9, 12, 31, 8, 16, 35, 23, 2, 8, 14.

T																			
16	36	27	31	8	14	14	12	8	33	34	2	27	15	33	2	16			
13	15	27	7	9	12	31	8	16	35	23	2	8	14						

$\frac{1}{5}$ of 80 = $\rightarrow$ **T**

$\frac{1}{3}$ of 81 = $\rightarrow$ **E**

$2/10$ of $40 = \boxed{} \rightarrow \boxed{\text{I}}$

$3/6$ of 68 = $\rightarrow$ **D**

2/10 of 175 = → **Y**

$$\frac{1}{2} \text{ of } 26 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1/10 \text{ of } 70 = \boxed{} \rightarrow \mathbf{G}$$

$$1/10 \text{ of } 90 = \boxed{} \rightarrow \boxed{\text{R}}$$

$1/4$ of 124 = $\rightarrow$ **V**

$2/4$ of 46 = → **C**

$$\frac{1}{6} \text{ of } 198 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2/10 \text{ of } 180 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2/6 \text{ of } 6 = \boxed{} \rightarrow \boxed{0}$$

$3/8$ of 40 = $\rightarrow$ **S**

$3/10$ of $40 = \boxed{} \rightarrow \boxed{\text{A}}$

4/6 of 21 = → **L**

Scratch space:

CLUE 2

Order of operations

To unlock the security feed showing which hand clicked the button, we must solve a multi-step trap code equation.

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

T			T							T								
39	13	64	39	41	23	79	44	23	15	39	41	57	79	79	64	10	52	49
					T													
23	41	57	7	13	39	13	23	56	10	58	76	57	58	18				

$8 \times 6 - 9 = \square \rightarrow \boxed{\text{T}}$

$6 \times 10 - 16 = \square \rightarrow \boxed{\text{W}}$

$7 \times 10 - 12 = \square \rightarrow \boxed{\text{C}}$

$7 \times 10 - 13 = \square \rightarrow \boxed{\text{I}}$

$36 + 2 \times 8 = \square \rightarrow \boxed{\text{B}}$

$11 \times 6 - 10 = \square \rightarrow \boxed{\text{N}}$

$5 \times 4 - 5 = \square \rightarrow \boxed{\text{S}}$

$1 + 3 \times 2 = \square \rightarrow \boxed{\text{G}}$

$2 + 7 \times 3 = \square \rightarrow \boxed{\text{A}}$

$4 + 2 \times 7 = \square \rightarrow \boxed{\text{K}}$

$7 \times 4 - 18 = \square \rightarrow \boxed{\text{D}}$

$1 + 2 \times 6 = \square \rightarrow \boxed{\text{H}}$

$12 \times 6 - 8 = \square \rightarrow \boxed{\text{E}}$

$11 \times 9 - 23 = \square \rightarrow \boxed{\text{L}}$

$19 + 5 \times 6 = \square \rightarrow \boxed{\text{Y}}$

$5 + 9 \times 4 = \square \rightarrow \boxed{\text{R}}$

$11 \times 8 - 9 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

The villain ran across a grid of trick tiles. If we multiply the rows of tiles, we can find the exact strength of their weakness.

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

T																			
32	42	90	3	1	24	24	90	3	1	50	90	12	80	144	80	11			
					T														
50	9	22	60	90	32	40	90	50	20	80	9	90							

$8 \times 4 = \square \rightarrow$ T	$9 \times 10 = \square \rightarrow$ E	$11 \times 1 = \square \rightarrow$ G	
$8 \times 3 = \square \rightarrow$ N	$2 \times 10 = \square \rightarrow$ C	$7 \times 6 = \square \rightarrow$ H	
$10 \times 8 = \square \rightarrow$ A	$12 \times 12 = \square \rightarrow$ L	$2 \times 11 = \square \rightarrow$ I	
$5 \times 10 = \square \rightarrow$ S	$10 \times 6 = \square \rightarrow$ K	$8 \times 5 = \square \rightarrow$ O	
$1 \times 1 = \square \rightarrow$ U	$1 \times 3 = \square \rightarrow$ R	$3 \times 4 = \square \rightarrow$ D	$3 \times 3 = \square \rightarrow$ P

Scratch space:

CLUE 4 Rounding

A lobby speed sensor caught the villain running, but it only displays speed estimates rounded to the nearest tenth.

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

B																	
70	430	300	3700	130	430	1700	230	2000	200	130	30	290	2000	2300	3700	30	
230	3700	2900	3700	430	3700	3000	1100	9000	1100	1100	1300	3700	1100	2900	9000	290	

Round 66 to the nearest ten → **B**

Round 1,725 to the nearest hundred → **O**

Round 2,585 to the nearest thousand → **F**

Round 1,113 to the nearest hundred → **T**

Round 1,605 to the nearest thousand → **I**

Round 314 to the nearest hundred → **U**

Round 29 to the nearest ten → **S**

Round 234 to the nearest hundred → **N**

Round 3,735 to the nearest hundred → **E**

Round 2,266 to the nearest hundred → **K**

Round 429 to the nearest ten → **L**

Round 294 to the nearest ten → **P**

Round 8,997 to the nearest thousand → **A**

Round 2,855 to the nearest hundred → **R**

Round 133 to the nearest ten → **G**

Round 1,278 to the nearest hundred → **H**

Round 233 to the nearest ten → **W**

Scratch space:

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

We found a stash of dropped lobby tickets. Sharing them equally among the team reveals the clue pointing to their avatar hat.

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:

$12 \div 2 = \boxed{}$

$14 \div 2 = \boxed{}$

$90 \div 10 = \boxed{}$

$4 \div 4 = \boxed{}$

$21 \div 7 = \boxed{}$

$12 \div 6 = \boxed{}$

$110 \div 11 = \boxed{}$

$20 \div 5 = \boxed{}$

$22 \div 2 = \boxed{}$

$96 \div 12 = \boxed{}$

$24 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain releases the spike wall, then rewinds time with a time warp.
2. The villain activates the lava pit trap, then escapes using double jump.
3. The villain collapses the tricky bridge, then floats away with a gravity coil.
4. The villain activates the lava pit trap, then floats away with a gravity coil.
5. The villain releases the spike wall, then flees with a speed coil.
6. The villain releases the spike wall, then blocks attacks with a shield charm.
7. The villain shoots a poison dart, then flees with a speed coil.
8. The villain drops a falling boulder, then escapes using double jump.
9. The villain collapses the tricky bridge, then flees with a speed coil.
10. The villain releases the spike wall, then floats away with a gravity coil.
11. The villain shoots a poison dart, then floats away with a gravity coil.
12. The villain activates the lava pit trap, then rewinds time with a time warp.

Answer Key

The DeathRun Trap Sabotage

Culprit: Preston

Spike Wall · Speed Coil · Right hand button presser · Neon Blue Spikes · Lag Spike

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE GRAVITY COIL"

$\frac{1}{5}$ of 80 = 16 (T) · $\frac{1}{3}$ of 81 = 27 (E) · $\frac{2}{10}$ of 40 = 8 (I) · $\frac{3}{6}$ of 68 = 34 (D) · $\frac{2}{10}$ of 175 = 35 (Y) · $\frac{1}{2}$ of 26 = 13 (U) · $\frac{1}{10}$ of 70 = 7 (G) · $\frac{1}{10}$ of 90 = 9 (R) · $\frac{1}{4}$ of 124 = 31 (V) · $\frac{2}{4}$ of 46 = 23 (C) · $\frac{1}{6}$ of 198 = 33 (N) · $\frac{2}{10}$ of 180 = 36 (H) · $\frac{2}{6}$ of 6 = 2 (O) · $\frac{3}{8}$ of 40 = 15 (S) · $\frac{3}{10}$ of 40 = 12 (A) · $\frac{4}{6}$ of 21 = 14 (L)

Clue 2 (Order of operations): "THE TRAP WAS TRIPPED BY A RIGHT HAND CLICK"

$8 \times 6 - 9 = 39$ (T) · $6 \times 10 - 16 = 44$ (W) · $7 \times 10 - 12 = 58$ (C) · $7 \times 10 - 13 = 57$ (I) · $36 + 2 \times 8 = 52$ (B) · $11 \times 6 - 10 = 56$ (N) · $5 \times 4 - 5 = 15$ (S) · $1 + 3 \times 2 = 7$ (G) · $2 + 7 \times 3 = 23$ (A) · $4 + 2 \times 7 = 18$ (K) · $7 \times 4 - 18 = 10$ (D) · $1 + 2 \times 6 = 13$ (H) · $12 \times 6 - 8 = 64$ (E) · $11 \times 9 - 23 = 76$ (L) · $19 + 5 \times 6 = 49$ (Y) · $5 + 9 \times 4 = 41$ (R) · $11 \times 8 - 9 = 79$ (P)

Clue 3 (Multiplication facts (1-12)): "THE RUNNER USED A LAG SPIKE TO ESCAPE"

$8 \times 4 = 32$ (T) · $9 \times 10 = 90$ (E) · $11 \times 1 = 11$ (G) · $8 \times 3 = 24$ (N) · $2 \times 10 = 20$ (C) · $7 \times 6 = 42$ (H) · $10 \times 8 = 80$ (A) · $12 \times 12 = 144$ (L) · $2 \times 11 = 22$ (I) · $5 \times 10 = 50$ (S) · $10 \times 6 = 60$ (K) · $8 \times 5 = 40$ (O) · $1 \times 1 = 1$ (U) · $1 \times 3 = 3$ (R) · $3 \times 4 = 12$ (D) · $3 \times 3 = 9$ (P)

Clue 4 (Rounding): "BLUE GLOWING SPIKES WERE LEFT AT THE TRAP"

Round 66 to the nearest ten = 70 (B) · Round 1,725 to the nearest hundred = 1700 (O) · Round 2,585 to the nearest thousand = 3000 (F) · Round 1,113 to the nearest hundred = 1100 (T) · Round 1,605 to the nearest thousand = 2000 (I) · Round 314 to the nearest hundred = 300 (U) · Round 29 to the nearest ten = 30 (S) · Round 234 to the nearest hundred = 200 (N) · Round 3,735 to the nearest hundred = 3700 (E) · Round 2,266 to the nearest hundred = 2300 (K) · Round 429 to the nearest ten = 430 (L) · Round 294 to the nearest ten = 290 (P) · Round 8,997 to the nearest thousand = 9000 (A) · Round 2,855 to the nearest hundred = 2900 (R) · Round 133 to the nearest ten = 130 (G) · Round 1,278 to the nearest hundred = 1300 (H) · Round 233 to the nearest ten = 230 (W)

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

$12 \div 2 = 6$ · $14 \div 2 = 7$ · $90 \div 10 = 9$ · $4 \div 4 = 1$ · $21 \div 7 = 3$ · $12 \div 6 = 2$ · $110 \div 11 = 10$ · $20 \div 5 = 4$ · $22 \div 2 = 11$ · $96 \div 12 = 8$ · $24 \div 2 = 12$