



The Zero Point Heist

Grade 5 math · Multiplication, Fractions of a number, Order of operations, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The Zero Point is glowing. A mysterious Rogue Looper has broken into the vault at Tilted Towers and stolen the golden llama trophy. The match cannot start until the trophy is back. Use your building skills and storm tracker to find the culprit before the final circle closes.

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 Looper is _____

Possible suspects

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

NAME	MAIN WEAPON	BACK BLING	COMBAT STANCE	HELMET ACCENT	COUNTER STRATEGY
Loserfruit	Pump Shotgun	Neon Wings	Left Handed Builder	Red Visor	Shield Breaker
Lazar	Assault Rifle	Jetpack	Left Handed Builder	Red Visor	Rust Bomb
Wildcard	Sniper Rifle	Jetpack	Left Handed Builder	Red Visor	Shield Breaker
Jonesy	Rocket Launcher	Golden Llama	Right Handed Builder	Red Visor	Rust Bomb
Lynx	Sniper Rifle	Spike Shield	Left Handed Builder	Yellow Crown	Shield Breaker
Sypher	Shockwave Grenade	Spike Shield	Right Handed Builder	Red Visor	Shield Breaker
Aura	Pump Shotgun	Loot Chest	Right Handed Builder	Blue Mohawk	Boogie Bomb
Meowscles	Shockwave Grenade	Spike Shield	Right Handed Builder	Red Visor	Rust Bomb
Ramirez	Rocket Launcher	Spike Shield	Left Handed Builder	Yellow Crown	Boogie Bomb
Drift	Assault Rifle	Loot Chest	Left Handed Builder	Blue Mohawk	Boogie Bomb
Fishstick	Sniper Rifle	Jetpack	Left Handed Builder	Red Visor	Rust Bomb
Midas	Pump Shotgun	Jetpack	Right Handed Builder	Red Visor	Rust Bomb
Raven	Sniper Rifle	Jetpack	Left Handed Builder	Yellow Crown	Boogie Bomb
Ruby	Assault Rifle	Spike Shield	Right Handed Builder	Yellow Crown	Rust Bomb
Ninja	Shockwave Grenade	Spike Shield	Left Handed Builder	Yellow Crown	Rust Bomb
Brite Bomber	Pump Shotgun	Neon Wings	Right Handed Builder	Red Visor	Rust Bomb
Jules	Assault Rifle	Golden Llama	Right Handed Builder	Blue Mohawk	Rust Bomb
Rex	Sniper Rifle	Jetpack	Right Handed Builder	Red Visor	Rust Bomb
Cuddle Leader	Shockwave Grenade	Neon Wings	Right Handed Builder	Yellow Crown	Boogie Bomb
Peely	Pump Shotgun	Loot Chest	Left Handed Builder	Yellow Crown	Boogie Bomb
Skye	Pump Shotgun	Loot Chest	Right Handed Builder	Blue Mohawk	Rust Bomb

CLUE 1
Multiplication facts (1-12)

We checked the ammo crates. They were stacked in neat rows. We multiplied the rows to count the ammo and decode this first clue.

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

T																	
6	60	99	77	88	32	3	99	63	88	88	4	99	77	5	88	99	132

		T															
36	88	6	24	99	9	77	36	99	88	36	24	120	36	32	132		

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

Scratch space:

CLUE 2 Fractions of a number

The squad shared a big supply of shield potions. Only a fraction of the potions were full. Finding that fraction gave us the next clue.

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

2/6 of 90 = → **T**

$$\frac{1}{4} \text{ of } 28 = \boxed{} \rightarrow \boxed{\text{P}}$$

$\frac{1}{5}$ of 55 = $\rightarrow$ **D**

$1/10$ of 80 = $\rightarrow$ **W**

$$\frac{1}{6} \text{ of } 90 = \boxed{} \rightarrow \boxed{\text{R}}$$

7/10 of 40 = →

$\frac{1}{4}$ of 8 = $\rightarrow$ **A**

$5/6$ of $42 = \boxed{} \rightarrow \boxed{\text{U}}$

$$2/4 \text{ of } 74 = \boxed{} \rightarrow \boxed{\text{S}}$$

$\frac{1}{3}$ of 102 = $\rightarrow$ **N**

$2/4$ of 78 = $\rightarrow$ **C**

$3/8$ of 8 = $\rightarrow$ **G**

$2/3$ of 6 = $\rightarrow$ **H**

$\frac{3}{4}$ of 16 = $\rightarrow$ **B**

2/8 of 132 = → **L**

$$1/8 \text{ of } 104 = \boxed{} \rightarrow \boxed{\text{E}}$$

Scratch space:

Order of operations

To unlock the supply drop, we had to solve a mixed equation on the keypad. Using the correct order of operations revealed this clue.

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

A number line from 0 to 100. The numbers 9, 70, 49, 76, 49, 9, 37, 60, 51, 37, 60, 60, 46, 7, 75, 46, and 9 are placed in boxes. The boxes for 9, 49, 9, and 9 are highlighted in orange and contain the letter 'T'.

$$8 \times 3 - 15 = \boxed{} \rightarrow \boxed{\text{T}}$$

$9 \times 5 - 11 = \boxed{} \rightarrow \boxed{\text{F}}$

$$16 + 7 \times 3 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$11 \times 8 - 12 = \boxed{} \rightarrow \boxed{\text{M}}$

$8 \times 8 - 15 = \boxed{} \rightarrow \boxed{\text{E}}$

$$48 + 4 \times 3 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$25 + 7 \times 3 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$22 + 7 \times 6 = \boxed{} \rightarrow \boxed{0}$$

$$36 + 5 \times 3 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$3 + 2 \times 2 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$10 \times 9 - 15 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$43 + 9 \times 3 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$10 \times 7 - 8 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

Scratch space:

CLUE 4 Rounding

The storm tracker radar only shows rounded numbers for distances. We rounded the storm's distance to the nearest mile to find this clue.

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

R							R										
130	4300	110	230	2000	20	700	130	90	5000	30	20	20	1700	30	20		
												R					
300	700	2900	290	110	2000	290	7000	50	4300	70	130	2900	20	50			

Round 126 to the nearest ten →

D

Round 306 to the nearest hundred →

F

Round 26 to the nearest ten →

A

Round 226 to the nearest ten →

V

Round 22 to the nearest ten →

S

Round 48 to the nearest ten →

H

Round 107 to the nearest ten →

D

Round 290 to the nearest ten →

N

Round 69 to the nearest ten →

B

Round 88 to the nearest ten →

G

Round 4,929 to the nearest thousand →

L

Round 7,117 to the nearest thousand →

T

Round 1,720 to the nearest hundred →

W

Round 2,373 to the nearest thousand →

I

Round 4,271 to the nearest hundred →

E

Round 2,925 to the nearest hundred →

U

Round 708 to the nearest hundred →

O

Scratch space:

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

We split our wood building materials equally among our four team members. Division helped us share the mats and 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:

$35 \div 5 = \boxed{}$

$15 \div 3 = \boxed{}$

$6 \div 2 = \boxed{}$

$12 \div 1 = \boxed{}$

$90 \div 9 = \boxed{}$

$32 \div 4 = \boxed{}$

$121 \div 11 = \boxed{}$

$5 \div 5 = \boxed{}$

$27 \div 3 = \boxed{}$

$66 \div 11 = \boxed{}$

$10 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain fired a pump shotgun, then held a golden llama.
2. The villain aimed a sniper rifle, then flew with neon wings.
3. The villain threw a shockwave grenade, then blocked with a spike shield.
4. The villain aimed a sniper rifle, then escaped with a jetpack.
5. The villain launched a rocket, then held a golden llama.
6. The villain launched a rocket, then escaped with a jetpack.
7. The villain fired a pump shotgun, then escaped with a jetpack.
8. The villain launched a rocket, then searched a loot chest.
9. The villain shot an assault rifle, then searched a loot chest.
10. The villain launched a rocket, then flew with neon wings.
11. The villain aimed a sniper rifle, then held a golden llama.
12. The villain launched a rocket, then blocked with a spike shield.

Answer Key

The Zero Point Heist

Culprit: Rex

Sniper Rifle · Jetpack · Right Handed Builder · Red Visor · Rust Bomb

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE ROGUE LOOPER DOES NOT WEAR NEON WINGS"

$6 \times 1 = 6$ (T) · $7 \times 9 = 63$ (L) · $5 \times 12 = 60$ (H) · $11 \times 8 = 88$ (O) · $2 \times 2 = 4$ (P) · $7 \times 11 = 77$ (R) · $3 \times 3 = 9$ (A) · $8 \times 3 = 24$ (W) · $12 \times 11 = 132$ (S) · $3 \times 1 = 3$ (U) · $5 \times 1 = 5$ (D) · $6 \times 6 = 36$ (N) · $9 \times 11 = 99$ (E) · $4 \times 8 = 32$ (G) · $12 \times 10 = 120$ (I)

Clue 2 (Fractions of a number): "THE SUSPECT BUILDS WITH THEIR RIGHT HAND"

$2/6$ of 90 = 30 (T) · $1/4$ of 28 = 7 (P) · $1/5$ of 55 = 11 (D) · $1/10$ of 80 = 8 (W) · $1/6$ of 90 = 15 (R) · $7/10$ of 40 = 28 (I) · $1/4$ of 8 = 2 (A) · $5/6$ of 42 = 35 (U) · $2/4$ of 74 = 37 (S) · $1/3$ of 102 = 34 (N) · $2/4$ of 78 = 39 (C) · $3/8$ of 8 = 3 (G) · $2/3$ of 6 = 4 (H) · $3/4$ of 16 = 12 (B) · $2/8$ of 132 = 33 (L) · $1/8$ of 104 = 13 (E)

Clue 3 (Order of operations): "THE METAL WALLS RUST FROM A RUST BOMB"

$8 \times 3 - 15 = 9$ (T) · $9 \times 5 - 11 = 34$ (F) · $16 + 7 \times 3 = 37$ (A) · $11 \times 8 - 12 = 76$ (M) · $8 \times 8 - 15 = 49$ (E) · $48 + 4 \times 3 = 60$ (L) · $25 + 7 \times 3 = 46$ (S) · $22 + 7 \times 6 = 64$ (O) · $36 + 5 \times 3 = 51$ (W) · $3 + 2 \times 2 = 7$ (R) · $10 \times 9 - 15 = 75$ (U) · $43 + 9 \times 3 = 70$ (H) · $10 \times 7 - 8 = 62$ (B)

Clue 4 (Rounding): "RED VISOR GLASS WAS FOUND IN THE BRUSH"

Round 126 to the nearest ten = 130 (R) · Round 306 to the nearest hundred = 300 (F) · Round 26 to the nearest ten = 30 (A) · Round 226 to the nearest ten = 230 (V) · Round 22 to the nearest ten = 20 (S) · Round 48 to the nearest ten = 50 (H) · Round 107 to the nearest ten = 110 (D) · Round 290 to the nearest ten = 290 (N) · Round 69 to the nearest ten = 70 (B) · Round 88 to the nearest ten = 90 (G) · Round 4,929 to the nearest thousand = 5000 (L) · Round 7,117 to the nearest thousand = 7000 (T) · Round 1,720 to the nearest hundred = 1700 (W) · Round 2,373 to the nearest thousand = 2000 (I) · Round 4,271 to the nearest hundred = 4300 (E) · Round 2,925 to the nearest hundred = 2900 (U) · Round 708 to the nearest hundred = 700 (O)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Rex

$35 \div 5 = 7$ · $15 \div 3 = 5$ · $6 \div 2 = 3$ · $12 \div 1 = 12$ · $90 \div 9 = 10$ · $32 \div 4 = 8$ · $121 \div 11 = 11$ · $5 \div 5 = 1$ · $27 \div 3 = 9$ · $66 \div 11 = 6$ · $10 \div 5 = 2$