



The Great Kid Station Jailbreak

Grade 5 math · Addition, Place value, Subtraction, Multiplication, Fractions of a number · Reading level grades 5-6

Detective: _____ **Date:** _____

Chief Joshua Dax Zeno is in a total panic! Someone snuck into the Kid Police Station, grabbed the keys, and let all the mischievous kid criminals out of their cells. We need to find the sneaky junior officer who did this before the whole playground is overrun with pranks!

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 junior officer is _____

Possible suspects

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

NAME	PATROL DUTY	SIGNATURE TOOL	WRITING HAND	HAIR STYLE	FAVORITE SNACK
Ryan	Hallway Monitor	Walkie Talkie	Right-handed writer	Spiky green hair	Spicy cheese puffs
Xavier	Siren Control	Laser Tag Blaster	Left-handed writer	Spiky green hair	Sour gummy worms
Zack	Siren Control	Glow Paint Sprayer	Left-handed writer	Spiky green hair	Spicy cheese puffs
Felix	Hallway Monitor	Laser Tag Blaster	Right-handed writer	Spiky green hair	Sour gummy worms
Parker	Siren Control	Walkie Talkie	Left-handed writer	Spiky green hair	Spicy cheese puffs
Daniel	Bicycle Patrol	Pocket Drone	Left-handed writer	Shaved blue hair	Grape juice boxes
Ethan	Bicycle Patrol	Glow Paint Sprayer	Right-handed writer	Spiky green hair	Spicy cheese puffs
Quinn	Evidence Locker Guard	Pocket Drone	Right-handed writer	Spiky green hair	Sour gummy worms
Gavin	Bicycle Patrol	Capture Net	Left-handed writer	Shaved blue hair	Grape juice boxes
Carter	Siren Control	Laser Tag Blaster	Right-handed writer	Spiky green hair	Spicy cheese puffs
Alex	Siren Control	Capture Net	Right-handed writer	Shaved blue hair	Spicy cheese puffs
Sammy	Megaphone Duty	Walkie Talkie	Left-handed writer	Curly red hair	Grape juice boxes
Mason	Megaphone Duty	Glow Paint Sprayer	Left-handed writer	Spiky green hair	Sour gummy worms
Kaleb	Megaphone Duty	Laser Tag Blaster	Right-handed writer	Spiky green hair	Spicy cheese puffs
Victor	Evidence Locker Guard	Laser Tag Blaster	Right-handed writer	Shaved blue hair	Spicy cheese puffs
Wyatt	Evidence Locker Guard	Pocket Drone	Right-handed writer	Spiky green hair	Spicy cheese puffs
Hugo	Bicycle Patrol	Walkie Talkie	Left-handed writer	Spiky green hair	Sour gummy worms
Nolan	Bicycle Patrol	Glow Paint Sprayer	Right-handed writer	Curly red hair	Sour gummy worms
Tyler	Evidence Locker Guard	Laser Tag Blaster	Left-handed writer	Shaved blue hair	Grape juice boxes
Owen	Evidence Locker Guard	Pocket Drone	Left-handed writer	Spiky green hair	Sour gummy worms
Ian	Bicycle Patrol	Capture Net	Right-handed writer	Shaved blue hair	Sour gummy worms

CLUE 1

Chief Joshua Dax Zeno wants a tally of all the footprints left near the cells. Let us add up the muddy prints from the hallway and the lobby to reveal the first clue.

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

8372 9491 9199 6595 3658 9199 8697 5348 6119 2370 3454 8697 3658 5348 6595 8372 9199 3454

7342 3640 9199 6595 3658 3640 8372 9491 8697 7353 9199 8697 2362 8697 3216 5348 5230 9199

8372 8697 3216 5348 5230 9199

$$3043 + 5329 = \boxed{} \rightarrow \boxed{\mathbf{T}}$$

$$3486 + 2633 = \boxed{} \rightarrow \boxed{\mathbf{Y}}$$

$$1234 + 2406 = \boxed{} \rightarrow \boxed{0}$$

$$2403 + 1255 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3940 + 2655 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1863 + 1353 = \boxed{} \rightarrow \boxed{\text{L}}$$

$827 + 1543 = \boxed{} \rightarrow \boxed{\text{P}}$

$$3234 + 1996 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$1239 + 2215 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$3545 + 3808 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$$5106 + 2236 = \boxed{} \rightarrow \boxed{\text{D}}$$

$1141 + 1221 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$$6354 + 3137 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$3702 + 1646 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$3159 + 5538 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$3392 + 5807 = \boxed{} \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 2 Place value

The security keypad has a scrambled code on the screen. We must look at the place value of the digits in the lockout code to unlock the suspect file.

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

T																			
5000	200	6000	7000	500	7000	400	6000	70	5000	1000	40	7000	7000	6000	6000	8000			
500	7000	100	8000	4000	5000	200	6000	100	50	50	100	4000	200	5000	200	40	8000	800	

What is the value of the 5 in 895,764? → **T**

What is the value of the 4 in 64,991? → **G**

What is the value of the 4 in 66,842? → **A**

What is the value of the 8 in 948,236? → **N**

What is the value of the 4 in 53,467? → **P**

What is the value of the 8 in 11,849? → **D**

What is the value of the 1 in 31,793? → **W**

What is the value of the 7 in 24,371? → **C**

What is the value of the 6 in 16,943? → **E**

What is the value of the 5 in 37,549? → **U**

What is the value of the 1 in 24,167? → **I**

What is the value of the 5 in 79,350? → **R**

What is the value of the 2 in 75,269? → **H**

What is the value of the 7 in 67,339? → **S**

Scratch space:

CLUE 3

Subtraction

Some shiny junior badges are missing from the trophy case. Subtract the recovered badges from the original total to find the difference and trace our suspect.

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

T																			
4844	5613	6694	4597	1127	1695	6468	3637	8716	4844	1695	6694	7797	4844	1837	4140	6694	3637		
7570	1837	3637	3678	6468	8716	4597	6414	4597	5613	6694	6694	3678	6694	6468	1127	7570	7570	3678	

$5546 - 702 = \square \rightarrow \boxed{\text{T}}$

$10564 - 4150 = \square \rightarrow \boxed{\text{Y}}$

$6676 - 1063 = \square \rightarrow \boxed{\text{H}}$

$2187 - 1060 = \square \rightarrow \boxed{\text{U}}$

$8790 - 993 = \square \rightarrow \boxed{\text{N}}$

$7797 - 1103 = \square \rightarrow \boxed{\text{E}}$

$1973 - 278 = \square \rightarrow \boxed{\text{L}}$

$6928 - 460 = \square \rightarrow \boxed{\text{P}}$

$8744 - 1174 = \square \rightarrow \boxed{\text{F}}$

$13427 - 4711 = \square \rightarrow \boxed{\text{I}}$

$4277 - 599 = \square \rightarrow \boxed{\text{S}}$

$5732 - 2095 = \square \rightarrow \boxed{\text{R}}$

$4970 - 373 = \square \rightarrow \boxed{\text{C}}$

$2096 - 259 = \square \rightarrow \boxed{\text{O}}$

$4621 - 481 = \square \rightarrow \boxed{\text{V}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The escaped kids left rows of juice boxes lined up in the hallway. Let us multiply the number of rows by the boxes in each row to find the total and get a clue.

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

W															
49	144	121	12	81	33	77	7	10	88	120	44	63	20	144	33

72	1	88	20	1	6	6	72	144	36	12	66	120	144	20

$7 \times 7 = \square \rightarrow \text{W}$

$11 \times 11 = \square \rightarrow \text{F}$

$1 \times 7 = \square \rightarrow \text{S}$

$12 \times 12 = \square \rightarrow \text{E}$

$6 \times 1 = \square \rightarrow \text{T}$

$4 \times 11 = \square \rightarrow \text{Y}$

$11 \times 6 = \square \rightarrow \text{C}$

$1 \times 10 = \square \rightarrow \text{P}$

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

$9 \times 9 = \square \rightarrow \text{U}$

$1 \times 12 = \square \rightarrow \text{O}$

$10 \times 12 = \square \rightarrow \text{K}$

$3 \times 11 = \square \rightarrow \text{N}$

$12 \times 3 = \square \rightarrow \text{L}$

$7 \times 11 = \square \rightarrow \text{D}$

$9 \times 8 = \square \rightarrow \text{H}$

$11 \times 8 = \square \rightarrow \text{I}$

$9 \times 7 = \square \rightarrow \text{G}$

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

Scratch space:

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

We found a scattered pile of dropped walkie talkies on the station lawn. If we calculate a fraction of this pile, we can find out who dropped them.

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:

$4/8 \text{ of } 22 = \boxed{}$

$2/8 \text{ of } 40 = \boxed{}$

$1/4 \text{ of } 20 = \boxed{}$

$1/2 \text{ of } 18 = \boxed{}$

$2/5 \text{ of } 30 = \boxed{}$

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

$1/8 \text{ of } 8 = \boxed{}$

$2/5 \text{ of } 5 = \boxed{}$

$1/3 \text{ of } 21 = \boxed{}$

$5/10 \text{ of } 12 = \boxed{}$

$2/5 \text{ of } 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain grabbed the golden master key, then sprayed silly string everywhere.
2. The villain distracted the guard dog, then escaped on a mini scooter.
3. The villain grabbed the golden master key, then escaped on a mini scooter.
4. The villain grabbed the golden master key, then left a trail of bubblegum wrappers.
5. The villain unlocked the main precinct gate, then left a trail of bubblegum wrappers.
6. The villain distracted the guard dog, then sprayed silly string everywhere.
7. The villain shut down the station power, then sprayed silly string everywhere.
8. The villain grabbed the golden master key, then dashed out the side door.
9. The villain disabled the hallway cameras, then dropped a toy badge.
10. The villain shut down the station power, then dropped a toy badge.
11. The villain disabled the hallway cameras, then escaped on a mini scooter.
12. The villain unlocked the main precinct gate, then escaped on a mini scooter.

Answer Key

The Great Kid Station Jailbreak

Culprit: Kaleb

Megaphone Duty · Laser Tag Blaster · Right-handed writer · Spiky green hair · Spicy cheese puffs

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY PRANKSTER DOES NOT HAVE A WALKIE TALKIE"

$3043 + 5329 = 8372$ (T) · $3486 + 2633 = 6119$ (Y) · $1234 + 2406 = 3640$ (O) · $2403 + 1255 = 3658$ (N) · $3940 + 2655 = 6595$ (S) · $1863 + 1353 = 3216$ (L) · $827 + 1543 = 2370$ (P) · $3234 + 1996 = 5230$ (I) · $1239 + 2215 = 3454$ (R) · $3545 + 3808 = 7353$ (V) · $5106 + 2236 = 7342$ (D) · $1141 + 1221 = 2362$ (W) · $6354 + 3137 = 9491$ (H) · $3702 + 1646 = 5348$ (K) · $3159 + 5538 = 8697$ (A) · $3392 + 5807 = 9199$ (E)

Clue 2 (Place value): "THE SUSPECT WAS SEEN USING THEIR RIGHT HAND"

What is the value of the 5 in $895,764$? = 5000 (T) · What is the value of the 4 in $64,991$? = 4000 (G) · What is the value of the 4 in $66,842$? = 40 (A) · What is the value of the 8 in $948,236$? = 8000 (N) · What is the value of the 4 in $53,467$? = 400 (P) · What is the value of the 8 in $11,849$? = 800 (D) · What is the value of the 1 in $31,793$? = 1000 (W) · What is the value of the 7 in $24,371$? = 70 (C) · What is the value of the 6 in $16,943$? = 6000 (E) · What is the value of the 5 in $37,549$? = 500 (U) · What is the value of the 1 in $24,167$? = 100 (I) · What is the value of the 5 in $79,350$? = 50 (R) · What is the value of the 2 in $75,269$? = 200 (H) · What is the value of the 7 in $67,339$? = 7000 (S)

Clue 3 (Subtraction): "THE CULPRIT LENT OVER FOR SPICY CHEESE PUFFS"

$5546 - 702 = 4844$ (T) · $10564 - 4150 = 6414$ (Y) · $6676 - 1063 = 5613$ (H) · $2187 - 1060 = 1127$ (U) · $8790 - 993 = 7797$ (N) · $7797 - 1103 = 6694$ (E) · $1973 - 278 = 1695$ (L) · $6928 - 460 = 6468$ (P) · $8744 - 1174 = 7570$ (F) · $13427 - 4711 = 8716$ (I) · $4277 - 599 = 3678$ (S) · $5732 - 2095 = 3637$ (R) · $4970 - 373 = 4597$ (C) · $2096 - 259 = 1837$ (O) · $4621 - 481 = 4140$ (V)

Clue 4 (Multiplication facts (1-12)): "WE FOUND SPIKY GREEN HAIR AT THE LOCKER"

$7 \times 7 = 49$ (W) · $11 \times 11 = 121$ (F) · $1 \times 7 = 7$ (S) · $12 \times 12 = 144$ (E) · $6 \times 1 = 6$ (T) · $4 \times 11 = 44$ (Y) · $11 \times 6 = 66$ (C) · $1 \times 10 = 10$ (P) · $1 \times 1 = 1$ (A) · $9 \times 9 = 81$ (U) · $1 \times 12 = 12$ (O) · $10 \times 12 = 120$ (K) · $3 \times 11 = 33$ (N) · $12 \times 3 = 36$ (L) · $7 \times 11 = 77$ (D) · $9 \times 8 = 72$ (H) · $11 \times 8 = 88$ (I) · $9 \times 7 = 63$ (G) · $4 \times 5 = 20$ (R)

Clue 5 (Fractions of a number): surviving statement is box 3 → Kaleb

$\frac{4}{8}$ of 22 = 11 · $\frac{2}{8}$ of 40 = 10 · $\frac{1}{4}$ of 20 = 5 · $\frac{1}{2}$ of 18 = 9 · $\frac{2}{5}$ of 30 = 12 · $\frac{2}{10}$ of 40 = 8 · $\frac{1}{8}$ of 8 = 1 · $\frac{2}{5}$ of 5 = 2 · $\frac{1}{3}$ of 21 = 7 · $\frac{5}{10}$ of 12 = 6 · $\frac{2}{5}$ of 10 = 4