



The Junior Police Station Caper

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

Detective: _____ **Date:** _____

Chief Joshua Dax Zeno just ran into the breakroom with some bad news! Someone broke into the evidence locker at Station 7 and swiped the golden walkie-talkie. We need our best junior detectives to solve the math puzzles, gather clues, and 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 Evidence Bandit is _____

Possible suspects

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

NAME	POLICE TOOL	DISGUISE	SUSPECT HABIT	WIG FIBER FOUND	BEST DEFENSE
Rookie Zoe	siren megaphone	clown shoes	humming siren song	red wig fiber	tickled with feather
Agent Cole	decoder watch	mustache mask	humming siren song	red wig fiber	scared by loud siren
Officer Maya	bubble handcuffs	neon cape	chewing bubblegum	red wig fiber	scared by loud siren
Cadet Jenny	decoder watch	windup mouse	chewing bubblegum	red wig fiber	tickled with feather
Cadet Nina	siren megaphone	windup mouse	chewing bubblegum	red wig fiber	trapped by bubblewrap
Officer Billy	siren megaphone	neon cape	chewing bubblegum	black wig fiber	tickled with feather
Agent Leo	bubble handcuffs	mustache mask	chewing bubblegum	red wig fiber	trapped by bubblewrap
Cadet Max	laser walkie	clown shoes	chewing bubblegum	red wig fiber	scared by loud siren
Officer Jake	bubble handcuffs	windup mouse	chewing bubblegum	black wig fiber	tickled with feather
Deputy Jax	laser walkie	windup mouse	chewing bubblegum	blonde wig fiber	scared by loud siren
Cadet Ruby	decoder watch	mustache mask	chewing bubblegum	blonde wig fiber	trapped by bubblewrap
Deputy Sarah	decoder watch	clown shoes	chewing bubblegum	red wig fiber	scared by loud siren
Agent Abby	siren megaphone	clown shoes	humming siren song	black wig fiber	trapped by bubblewrap
Deputy Mia	laser walkie	neon cape	humming siren song	red wig fiber	trapped by bubblewrap
Rookie Toby	siren megaphone	clown shoes	chewing bubblegum	blonde wig fiber	tickled with feather
Deputy Sam	glare goggles	fake badge	chewing bubblegum	red wig fiber	scared by loud siren
Deputy Cleo	siren megaphone	windup mouse	humming siren song	black wig fiber	trapped by bubblewrap
Cadet Noah	decoder watch	fake badge	humming siren song	black wig fiber	trapped by bubblewrap
Rookie Emma	bubble handcuffs	mustache mask	humming siren song	red wig fiber	scared by loud siren
Rookie Owen	bubble handcuffs	windup mouse	chewing bubblegum	red wig fiber	scared by loud siren
Agent Lily	laser walkie	fake badge	chewing bubblegum	blonde wig fiber	tickled with feather

CLUE 1 Addition

Officer Billy counted two sets of muddy footprints near the locker room. Add the footprint tallies together to find the security camera channel we need to watch!

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

T								T								T
6819	9804	2691	3955	8164	6437	2934	3737	6819	2934	3590	2691	9822	6437	3590	6819	

7947	2691	8164	8726	8164	5988	8164	6507	2691	3955	8164	2934	6145	2691

$2848 + 3971 = \square \rightarrow \boxed{\text{T}}$

$1361 + 2376 = \square \rightarrow \boxed{\text{I}}$

$2705 + 5242 = \square \rightarrow \boxed{\text{W}}$

$5017 + 4787 = \square \rightarrow \boxed{\text{H}}$

$4540 + 3624 = \square \rightarrow \boxed{\text{A}}$

$3239 + 3268 = \square \rightarrow \boxed{\text{K}}$

$3706 + 5020 = \square \rightarrow \boxed{\text{R}}$

$6261 + 3561 = \square \rightarrow \boxed{\text{S}}$

$2414 + 1541 = \square \rightarrow \boxed{\text{B}}$

$2050 + 884 = \square \rightarrow \boxed{\text{D}}$

$3263 + 3174 = \square \rightarrow \boxed{\text{N}}$

$2015 + 4130 = \square \rightarrow \boxed{\text{G}}$

$1015 + 1676 = \square \rightarrow \boxed{\text{E}}$

$2720 + 3268 = \square \rightarrow \boxed{\text{F}}$

$1952 + 1638 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 2 Subtraction

Chief Dax Zeno noticed some junior water balloons were missing from the supply cabinet. Subtract the popped ones to find out how many balloons the thief took!

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

T																			
2464	1549	3841	7423	1915	7423	3423	3841	7904	2464	3352	8668	7423	7904	1549	3841	3352	4023	3454	4696
3536	1915	3536	3536	5188	3841	4696	1915	5178											

$$4387 - 1923 = \boxed{} \rightarrow \boxed{T}$$

$$9793 - 2370 = \boxed{} \rightarrow \boxed{S}$$

$$13410 - 4742 = \boxed{} \rightarrow \boxed{A}$$

$$1897 - 348 = \boxed{} \rightarrow \boxed{H}$$

$$4369 - 2454 = \boxed{} \rightarrow \boxed{U}$$

$$5334 - 638 = \boxed{} \rightarrow \boxed{G}$$

$$8385 - 4931 = \boxed{} \rightarrow \boxed{N}$$

$$8689 - 4666 = \boxed{} \rightarrow \boxed{I}$$

$$7343 - 2165 = \boxed{} \rightarrow \boxed{M}$$

$$9706 - 4518 = \boxed{} \rightarrow \boxed{L}$$

$$5646 - 2110 = \boxed{} \rightarrow \boxed{B}$$

$$9047 - 1143 = \boxed{} \rightarrow \boxed{C}$$

$$3996 - 644 = \boxed{} \rightarrow \boxed{W}$$

$$8052 - 4211 = \boxed{} \rightarrow \boxed{E}$$

$$6932 - 3509 = \boxed{} \rightarrow \boxed{P}$$

Scratch space:

CLUE 3 Place value

The junior database requires a special passcode to view the wig fiber analysis. Identify the correct digit in the tens place of our main precinct code to unlock it!

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

T																		
4000	900	5000	50	800	5000	30	5000	700	20	10	30	5000	90	40	50	10		

300	60	70	90	700	9000	30	5000	100

What is the value of the 4 in 514,777? →

T

What is the value of the 2 in 507,123? →

C

What is the value of the 3 in 29,636? →

R

What is the value of the 7 in 844,732? →

S

What is the value of the 9 in 70,971? →

H

What is the value of the 1 in 26,019? →

A

What is the value of the 9 in 271,093? →

D

What is the value of the 3 in 159,352? →

L

What is the value of the 5 in 32,051? →

Y

What is the value of the 7 in 483,170? →

U

What is the value of the 5 in 65,349? →

E

What is the value of the 1 in 45,174? →

N

What is the value of the 6 in 94,169? →

O

What is the value of the 4 in 831,247? →

B

What is the value of the 8 in 55,816? →

W

What is the value of the 9 in 59,605? →

I

Scratch space:

CLUE 4

Fractions of a number

Deputy Sarah found a discarded box of twelve glazed donuts. If the suspect snatched a fraction of the box, how many donuts did they ruin?

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

W									W								
29	7	16	20	32	22	19	24	7	19	29	4	17	16	4	34	7	24

$$2/8 \text{ of } 116 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$1/4 \text{ of } 136 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$1/6 \text{ of } 42 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2/10 \text{ of } 100 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$2/4 \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$2/8 \text{ of } 88 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1/4 \text{ of } 68 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$1/6 \text{ of } 24 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2/10 \text{ of } 160 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1/3 \text{ of } 57 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$6/8 \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{R}}$$

Scratch space:

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

We found a small pile of spare walkie-talkie batteries left near the playground swings. Calculate the fraction of charged batteries to discover where the culprit ran!

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:

$1/5 \text{ of } 30 = \boxed{}$

$1/3 \text{ of } 33 = \boxed{}$

$1/8 \text{ of } 16 = \boxed{}$

$5/10 \text{ of } 16 = \boxed{}$

$3/6 \text{ of } 20 = \boxed{}$

$1/10 \text{ of } 50 = \boxed{}$

$1/6 \text{ of } 18 = \boxed{}$

$2/4 \text{ of } 24 = \boxed{}$

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

$3/6 \text{ of } 18 = \boxed{}$

$2/6 \text{ of } 21 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shines glare goggles, then squeaks away in clown shoes.
2. The villain snaps a bubble handcuff, then zooms off wearing a neon cape.
3. The villain shouts into a siren megaphone, then zooms off wearing a neon cape.
4. The villain snaps a bubble handcuff, then distracts with a windup mouse.
5. The villain shines glare goggles, then distracts with a windup mouse.
6. The villain scans with a decoder watch, then squeaks away in clown shoes.
7. The villain shines glare goggles, then escapes in a mustache mask.
8. The villain shouts into a siren megaphone, then escapes in a mustache mask.
9. The villain snaps a bubble handcuff, then escapes in a mustache mask.
10. The villain shines glare goggles, then flashes a fake badge.
11. The villain blasts a laser walkie, then squeaks away in clown shoes.
12. The villain blasts a laser walkie, then escapes in a mustache mask.

Answer Key

The Junior Police Station Caper

Culprit: Rookie Owen

bubble handcuffs · windup mouse · chewing bubblegum · red wig fiber · scared by loud siren

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT WEAR A FAKE BADGE"

$2848 + 3971 = 6819$ (T) · $1361 + 2376 = 3737$ (I) · $2705 + 5242 = 7947$ (W) · $5017 + 4787 = 9804$ (H) · $4540 + 3624 = 8164$ (A) · $3239 + 3268 = 6507$ (K) · $3706 + 5020 = 8726$ (R) · $6261 + 3561 = 9822$ (S) · $2414 + 1541 = 3955$ (B) · $2050 + 884 = 2934$ (D) · $3263 + 3174 = 6437$ (N) · $2015 + 4130 = 6145$ (G) · $1015 + 1676 = 2691$ (E) · $2720 + 3268 = 5988$ (F) · $1952 + 1638 = 3590$ (O)

Clue 2 (Subtraction): "THE SUSPECT WAS CHEWING BUBBLEGUM"

$4387 - 1923 = 2464$ (T) · $9793 - 2370 = 7423$ (S) · $13410 - 4742 = 8668$ (A) · $1897 - 348 = 1549$ (H) · $4369 - 2454 = 1915$ (U) · $5334 - 638 = 4696$ (G) · $8385 - 4931 = 3454$ (N) · $8689 - 4666 = 4023$ (I) · $7343 - 2165 = 5178$ (M) · $9706 - 4518 = 5188$ (L) · $5646 - 2110 = 3536$ (B) · $9047 - 1143 = 7904$ (C) · $3996 - 644 = 3352$ (W) · $8052 - 4211 = 3841$ (E) · $6932 - 3509 = 3423$ (P)

Clue 3 (Place value): "THEY WERE SCARED BY A LOUD SIREN"

What is the value of the 4 in 514,777? = 4000 (T) · What is the value of the 2 in 507,123? = 20 (C) · What is the value of the 3 in 29,636? = 30 (R) · What is the value of the 7 in 844,732? = 700 (S) · What is the value of the 9 in 70,971? = 900 (H) · What is the value of the 1 in 26,019? = 10 (A) · What is the value of the 9 in 271,093? = 90 (D) · What is the value of the 3 in 159,352? = 300 (L) · What is the value of the 5 in 32,051? = 50 (Y) · What is the value of the 7 in 483,170? = 70 (U) · What is the value of the 5 in 65,349? = 5000 (E) · What is the value of the 1 in 45,174? = 100 (N) · What is the value of the 6 in 94,169? = 60 (O) · What is the value of the 4 in 831,247? = 40 (B) · What is the value of the 8 in 55,816? = 800 (W) · What is the value of the 9 in 59,605? = 9000 (I)

Clue 4 (Fractions of a number): "WE FOUND RED WIG FIBER"

$\frac{2}{8}$ of 116 = 29 (W) · $\frac{1}{4}$ of 136 = 34 (B) · $\frac{1}{6}$ of 42 = 7 (E) · $\frac{2}{10}$ of 100 = 20 (O) · $\frac{2}{4}$ of 32 = 16 (F) · $\frac{2}{8}$ of 88 = 22 (N) · $\frac{1}{4}$ of 68 = 17 (G) · $\frac{1}{6}$ of 24 = 4 (I) · $\frac{2}{10}$ of 160 = 32 (U) · $\frac{1}{3}$ of 57 = 19 (D) · $\frac{6}{8}$ of 32 = 24 (R)

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

$\frac{1}{5}$ of 30 = 6 · $\frac{1}{3}$ of 33 = 11 · $\frac{1}{8}$ of 16 = 2 · $\frac{5}{10}$ of 16 = 8 · $\frac{3}{6}$ of 20 = 10 · $\frac{1}{10}$ of 50 = 5 · $\frac{1}{6}$ of 18 = 3 · $\frac{2}{4}$ of 24 = 12 · $\frac{2}{4}$ of 2 = 1 · $\frac{3}{6}$ of 18 = 9 · $\frac{2}{6}$ of 21 = 7