



The Great Cafeteria Heist

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

Detective: _____ **Date:** _____

Someone has raided the Junior Police Precinct kitchen! Chef Joshua Dax Zeno was about to serve his famous giant blueberry muffins, but they have vanished. The Kid Police need to examine the clues, solve the math cases, and find the Cafeteria Bandit before lunch patrol!

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 Cafeteria Bandit is _____

Possible suspects

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

NAME	SIGNATURE TOOL	DISGUISE ITEM	WRITING HAND	MESSY HAIR COLOR	FAVORITE SNACK
Officer Harper	sticky foam blaster	fake mustache	writes left handed	neon green hair	sour gummy worms
Detective Ella	mega megaphone	fancy tuxedo cape	writes left handed	neon green hair	salty potato chips
Agent Finn	clue magnifying glass	oversized chef hat	writes right handed	bright orange hair	bubblegum ice cream
Deputy Chloe	laser flashlight	oversized chef hat	writes left handed	electric blue hair	bubblegum ice cream
Agent Jack	sticky foam blaster	shiny pilot goggles	writes right handed	electric blue hair	salty potato chips
Officer Grace	high speed scooter	clown nose disguise	writes left handed	bright orange hair	bubblegum ice cream
Detective Zeno	sticky foam blaster	clown nose disguise	writes right handed	electric blue hair	bubblegum ice cream
Detective Zoe	laser flashlight	fake mustache	writes right handed	neon green hair	bubblegum ice cream
Sergeant Brody	clue magnifying glass	fancy tuxedo cape	writes left handed	neon green hair	salty potato chips
Deputy Joshua	laser flashlight	fancy tuxedo cape	writes right handed	neon green hair	bubblegum ice cream
Officer Maya	high speed scooter	fake mustache	writes right handed	electric blue hair	bubblegum ice cream
Officer Ruby	mega megaphone	oversized chef hat	writes right handed	electric blue hair	bubblegum ice cream
Sgt Marcus	mega megaphone	shiny pilot goggles	writes right handed	electric blue hair	sour gummy worms
Cadet Sam	laser flashlight	shiny pilot goggles	writes right handed	electric blue hair	bubblegum ice cream
Deputy Mia	clue magnifying glass	shiny pilot goggles	writes right handed	bright orange hair	salty potato chips
Agent Cooper	mega megaphone	fake mustache	writes right handed	electric blue hair	bubblegum ice cream
Cadet Max	mega megaphone	oversized chef hat	writes left handed	bright orange hair	bubblegum ice cream
Officer Dax	mega megaphone	clown nose disguise	writes left handed	bright orange hair	bubblegum ice cream
Chief Rex	mega megaphone	fake mustache	writes right handed	neon green hair	bubblegum ice cream
Chief Toby	laser flashlight	oversized chef hat	writes right handed	bright orange hair	bubblegum ice cream
Cadet Mason	sticky foam blaster	fake mustache	writes right handed	electric blue hair	sour gummy worms

CLUE 1 Addition

To find the first clue, the rookies must count and add up all the shiny badge stickers scattered across the precinct floor.

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

T																	
6990	6397	9451	6723	8233	8248	5943	5391	6990	5943	7526	9451	7952	8248	7526	6990		

5705	9451	8233	7458	3553	5391	2725	7526	6990	2779	7526	2779	2779	2725	9451	7952		

$3933 + 3057 = \square \rightarrow \text{T}$	$3356 + 4877 = \square \rightarrow \text{A}$	$3239 + 2466 = \square \rightarrow \text{W}$
$4041 + 1902 = \square \rightarrow \text{D}$	$5214 + 2738 = \square \rightarrow \text{S}$	$3005 + 4521 = \square \rightarrow \text{O}$
$5722 + 2526 = \square \rightarrow \text{N}$	$1032 + 1747 = \square \rightarrow \text{G}$	$828 + 1897 = \square \rightarrow \text{L}$
$4306 + 2417 = \square \rightarrow \text{B}$	$2095 + 4302 = \square \rightarrow \text{H}$	$2447 + 1106 = \square \rightarrow \text{P}$
$4940 + 2518 = \square \rightarrow \text{R}$	$3158 + 6293 = \square \rightarrow \text{E}$	$3034 + 2357 = \square \rightarrow \text{I}$

Scratch space:

CLUE 2

Chef Joshua noticed some baking ingredients were missing. Subtracting the remaining flour sacks from the morning inventory reveals a hidden message.

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

[illegible]

$8032 - 1479 = \boxed{} \rightarrow \boxed{\text{T}}$

12644 - 4527 = → **M**

$$9604 - 1140 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$7603 - 3332 = \boxed{} \rightarrow \boxed{\text{I}}$$

$6542 - 2043 = \square \rightarrow \boxed{\text{R}}$

$$10364 - 2290 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$8850 - 2167 = \boxed{} \rightarrow \boxed{\text{C}}$$

$3958 - 725 = \boxed{} \rightarrow \boxed{\text{S}}$

$$5846 - 2654 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4682 - 2894 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$6140 - 1334 = \boxed{} \rightarrow \boxed{\text{N}}$$

$10902 - 2670 = \boxed{} \rightarrow \boxed{\text{G}}$

$$6446 - 1964 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$3719 - 863 = \boxed{} \rightarrow \boxed{0}$$

Scratch space:

CLUE 3

Fractions of a number

Officer Dax found a box of case files, but only a fraction of them belong to today's shift. Solving this fraction unlocks the suspect's hair color file.

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

W																		
40	23	38	14	24	28	29	37	32	28	11	32	8	23	8	26	23	17	12
29	26	32	37	3	28	23	17	26	19	9	23	29	14	14	26			

$$2/6 \text{ of } 120 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$9/10 \text{ of } 10 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$1/4 \text{ of } 92 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3/8 \text{ of } 8 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$3/6 \text{ of } 38 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$4/6 \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$4/8 \text{ of } 52 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2/3 \text{ of } 21 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$2/8 \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$1/4 \text{ of } 152 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$1/4 \text{ of } 112 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1/10 \text{ of } 170 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2/4 \text{ of } 22 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$1/8 \text{ of } 192 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$2/10 \text{ of } 185 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$3/6 \text{ of } 58 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$4/8 \text{ of } 16 = \boxed{} \rightarrow \boxed{\text{C}}$$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The suspect left boot prints in the spilled cocoa powder. Multiplying the rows of prints reveals the exact shoe size and the bandit's weakness.

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

W																	
66	63	88	60	77	21	22	5	21	63	110	63	18	25	132	30	18	
14	110	77	63	48	5	30	132	60	21	25	48	63	5	27	132	60	21

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

$11 \times 10 = \square \rightarrow \text{L}$

$7 \times 2 = \square \rightarrow \text{B}$

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

$5 \times 6 = \square \rightarrow \text{I}$

$5 \times 12 = \square \rightarrow \text{O}$

$11 \times 12 = \square \rightarrow \text{R}$

$11 \times 2 = \square \rightarrow \text{D}$

$12 \times 4 = \square \rightarrow \text{H}$

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

$3 \times 6 = \square \rightarrow \text{C}$

$5 \times 5 = \square \rightarrow \text{T}$

$1 \times 5 = \square \rightarrow \text{A}$

$9 \times 3 = \square \rightarrow \text{P}$

$3 \times 7 = \square \rightarrow \text{N}$

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

Scratch space:

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

Detective Zeno intercepted a coded radio transmission. Calculating the correct fraction of the frequency numbers pinpoints the suspect's writing hand.

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:

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

$1/5 \text{ of } 35 = \boxed{}$

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

$1/10 \text{ of } 40 = \boxed{}$

$1/2 \text{ of } 12 = \boxed{}$

$1/3 \text{ of } 15 = \boxed{}$

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

$2/6 \text{ of } 9 = \boxed{}$

$2/8 \text{ of } 48 = \boxed{}$

$4/6 \text{ of } 15 = \boxed{}$

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

Step 2 - cross out the sentence with each answer:

1. The villain swiped the secret muffin recipe, then zoomed away on a kid-sized bike.
2. The villain swiped the secret muffin recipe, then escaped out the fire exit door.
3. The villain swiped the secret muffin recipe, then dashed into the main briefing room.
4. The villain emptied the chocolate chip jar, then zoomed away on a kid-sized bike.
5. The villain emptied the chocolate chip jar, then dashed into the main briefing room.
6. The villain unlocked the secure walk-in freezer, then dashed into the main briefing room.
7. The villain snatched the golden mixing spoon, then climbed through the kitchen window.
8. The villain tipped over the giant flour bin, then zoomed away on a kid-sized bike.
9. The villain unlocked the secure walk-in freezer, then zoomed away on a kid-sized bike.
10. The villain snatched the golden mixing spoon, then dashed into the main briefing room.
11. The villain unlocked the secure walk-in freezer, then climbed through the kitchen window.
12. The villain tipped over the giant flour bin, then escaped out the fire exit door.

Answer Key

The Great Cafeteria Heist

Culprit: Officer Maya

high speed scooter · fake mustache · writes right handed · electric blue hair · bubblegum ice cream

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT WEAR PILOT GOGGLES"

$3933 + 3057 = 6990$ (T) · $3356 + 4877 = 8233$ (A) · $3239 + 2466 = 5705$ (W) · $4041 + 1902 = 5943$ (D) · $5214 + 2738 = 7952$ (S) · $3005 + 4521 = 7526$ (O) · $5722 + 2526 = 8248$ (N) · $1032 + 1747 = 2779$ (G) · $828 + 1897 = 2725$ (L) · $4306 + 2417 = 6723$ (B) · $2095 + 4302 = 6397$ (H) · $2447 + 1106 = 3553$ (P) · $4940 + 2518 = 7458$ (R) · $3158 + 6293 = 9451$ (E) · $3034 + 2357 = 5391$ (I)

Clue 2 (Subtraction): "THE CRIME SCENE NOTE WAS WRITTEN RIGHT HANDED"

$8032 - 1479 = 6553$ (T) · $12644 - 4527 = 8117$ (M) · $9604 - 1140 = 8464$ (W) · $7603 - 3332 = 4271$ (I) · $6542 - 2043 = 4499$ (R) · $10364 - 2290 = 8074$ (E) · $8850 - 2167 = 6683$ (C) · $3958 - 725 = 3233$ (S) · $5846 - 2654 = 3192$ (H) · $4682 - 2894 = 1788$ (A) · $6140 - 1334 = 4806$ (N) · $10902 - 2670 = 8232$ (G) · $6446 - 1964 = 4482$ (D) · $3719 - 863 = 2856$ (O)

Clue 3 (Fractions of a number): "WE FOUND PINK ICE CREAM DRIPS NEAR THE DOOR"

$\frac{2}{6}$ of 120 = 40 (W) · $\frac{9}{10}$ of 10 = 9 (H) · $\frac{1}{4}$ of 92 = 23 (E) · $\frac{3}{8}$ of 8 = 3 (S) · $\frac{3}{6}$ of 38 = 19 (T) · $\frac{4}{6}$ of 48 = 32 (I) · $\frac{4}{8}$ of 52 = 26 (R) · $\frac{2}{3}$ of 21 = 14 (O) · $\frac{2}{8}$ of 48 = 12 (M) · $\frac{1}{4}$ of 152 = 38 (F) · $\frac{1}{4}$ of 112 = 28 (N) · $\frac{1}{10}$ of 170 = 17 (A) · $\frac{2}{4}$ of 22 = 11 (K) · $\frac{1}{8}$ of 192 = 24 (U) · $\frac{2}{10}$ of 185 = 37 (P) · $\frac{3}{6}$ of 58 = 29 (D) · $\frac{4}{8}$ of 16 = 8 (C)

Clue 4 (Multiplication facts (1-12)): "WE FOUND AN ELECTRIC BLUE HAIR ON THE APRON"

$6 \times 11 = 66$ (W) · $11 \times 10 = 110$ (L) · $7 \times 2 = 14$ (B) · $7 \times 11 = 77$ (U) · $5 \times 6 = 30$ (I) · $5 \times 12 = 60$ (O) · $11 \times 12 = 132$ (R) · $11 \times 2 = 22$ (D) · $12 \times 4 = 48$ (H) · $7 \times 9 = 63$ (E) · $3 \times 6 = 18$ (C) · $5 \times 5 = 25$ (T) · $1 \times 5 = 5$ (A) · $9 \times 3 = 27$ (P) · $3 \times 7 = 21$ (N) · $8 \times 11 = 88$ (F)

Clue 5 (Fractions of a number): surviving statement is box 9 → Officer Maya

$\frac{2}{4}$ of 2 = 1 · $\frac{1}{5}$ of 35 = 7 · $\frac{1}{8}$ of 16 = 2 · $\frac{1}{10}$ of 40 = 4 · $\frac{1}{2}$ of 12 = 6 · $\frac{1}{3}$ of 15 = 5 · $\frac{4}{8}$ of 22 = 11 · $\frac{2}{6}$ of 9 = 3 · $\frac{2}{8}$ of 48 = 12 · $\frac{4}{6}$ of 15 = 10 · $\frac{1}{3}$ of 24 = 8