The Great Hallway Hijack

Grade 4 math · Place value, Addition, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Principal Vance's Golden Apple Trophy has vanished right before the annual School Spirit Assembly! Someone snuck into the main office and left a messy trail across the hallway.

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 Prankster is _____

Possible suspects

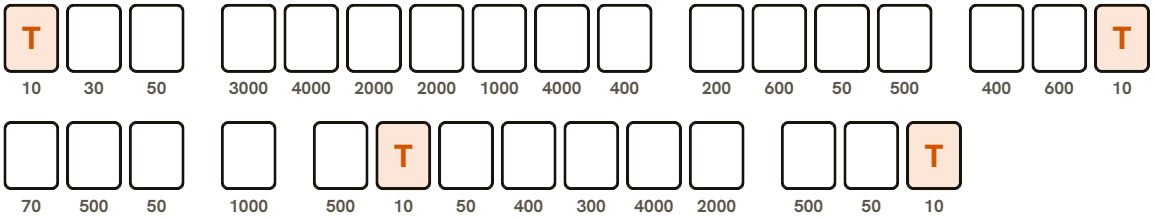
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	GEAR USED	SCHOOL SUPPLY	DOMINANT HAND	HAIR STYLE	DISTRACTION
Jamie	Glitter Bomb	Red Pen	Left Handed	Curly Hair	Loud Whistle
Alex	Megaphone	Red Pen	Left Handed	Curly Hair	Flashlight Beam
Sam	Hallway Scooter	Sticky Notes	Left Handed	Spiky Hair	Flashlight Beam
Dallas	Megaphone	Chalk Dust	Left Handed	Spiky Hair	Loud Whistle
Casey	Hall Pass	Hall Monitor Badge	Left Handed	Curly Hair	Flashlight Beam
Riley	Megaphone	Chalk Dust	Right Handed	Spiky Hair	Squeaky Shoes
Kai	Homework Cannon	Hall Monitor Badge	Right Handed	Curly Hair	Flashlight Beam
Emerson	Hall Pass	Stencil Set	Right Handed	Spiky Hair	Flashlight Beam
Cameron	Glitter Bomb	Stencil Set	Right Handed	Spiky Hair	Loud Whistle
Morgan	Megaphone	Sticky Notes	Left Handed	Spiky Hair	Flashlight Beam
Quinn	Homework Cannon	Chalk Dust	Right Handed	Spiky Hair	Flashlight Beam
Taylor	Megaphone	Red Pen	Left Handed	Braided Hair	Loud Whistle
Avery	Hall Pass	Hall Monitor Badge	Left Handed	Curly Hair	Loud Whistle
Peyton	Hallway Scooter	Stencil Set	Right Handed	Braided Hair	Squeaky Shoes
Skyler	Glitter Bomb	Red Pen	Left Handed	Curly Hair	Flashlight Beam
Parker	Glitter Bomb	Hall Monitor Badge	Right Handed	Spiky Hair	Loud Whistle
Rowan	Homework Cannon	Red Pen	Right Handed	Braided Hair	Squeaky Shoes
Sawyer	Hallway Scooter	Stencil Set	Left Handed	Curly Hair	Flashlight Beam
Finley	Megaphone	Sticky Notes	Left Handed	Curly Hair	Flashlight Beam
Reese	Megaphone	Hall Monitor Badge	Right Handed	Spiky Hair	Flashlight Beam
Jordan	Megaphone	Hall Monitor Badge	Right Handed	Braided Hair	Flashlight Beam

CLUE 1 Place value

Detective Maya examined the locker digit combinations left on the chalkboard to decode the first clue.

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



What is the value of the 1 in 7,517? ☐ → T

What is the value of the 1 in 71,068? ☐ → A

What is the value of the 7 in 274? ☐ → U

What is the value of the 5 in 8,452? ☐ → E

What is the value of the 6 in 9,627? ☐ → O

What is the value of the 4 in 4,571? ☐ → I

What is the value of the 3 in 9,320? ☐ → C

What is the value of the 2 in 2,301? ☐ → L

What is the value of the 4 in 477? ☐ → N

What is the value of the 2 in 9,217? ☐ → D

What is the value of the 3 in 3,874? ☐ → V

What is the value of the 5 in 7,517? ☐ → S

What is the value of the 3 in 6,632? ☐ → H

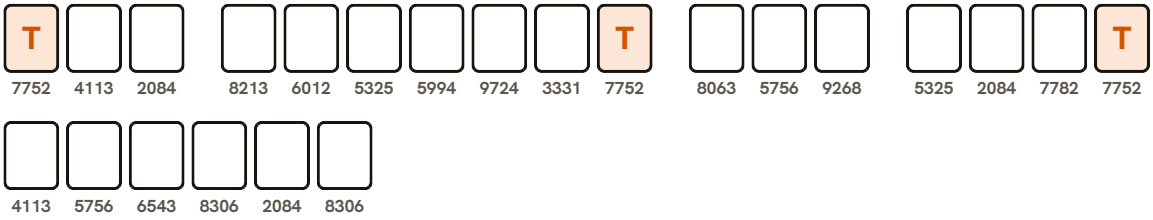
Scratch space:

CLUE 2

Addition

Detective Maya tallied up the total number of missing hall passes from all the teacher clipboards.

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



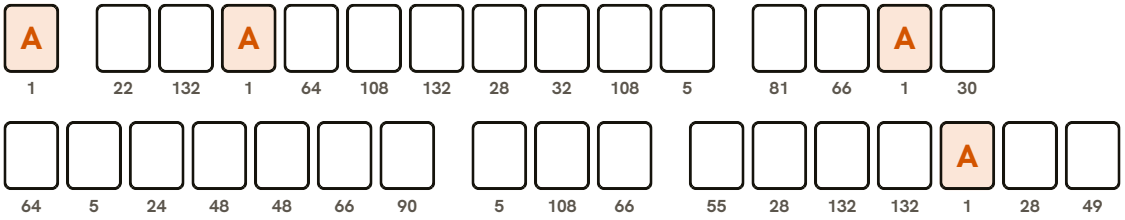
3934 + 3818 = ☐ → T	3192 + 3351 = ☐ → N	2221 + 1110 = ☐ → I
3015 + 5048 = ☐ → W	4141 + 5127 = ☐ → S	3481 + 4732 = ☐ → C
3998 + 1758 = ☐ → A	1672 + 2441 = ☐ → H	5548 + 2758 = ☐ → D
3144 + 2868 = ☐ → U	1280 + 804 = ☐ → E	2435 + 3559 = ☐ → P
1863 + 3462 = ☐ → L	6641 + 3083 = ☐ → R	3600 + 4182 = ☐ → F

Scratch space:

CLUE 3 Multiplication facts (1-12)

Detective Maya arranged the desk rows into equal groups to count the clue cards found in the library.

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



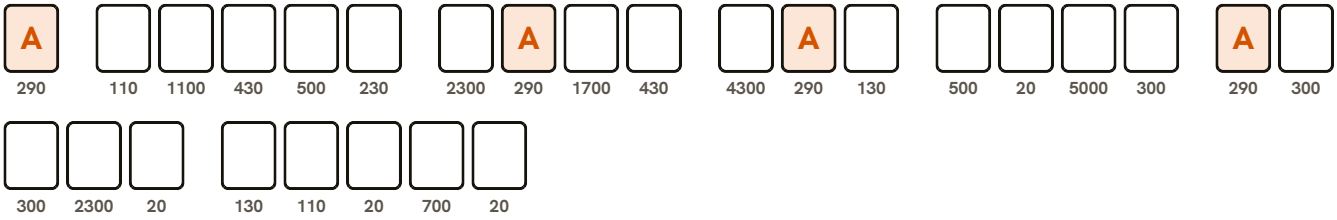
1 × 1 = ☐ → A	7 × 7 = ☐ → N	9 × 12 = ☐ → H	8 × 4 = ☐ → G
9 × 9 = ☐ → B	2 × 11 = ☐ → F	4 × 12 = ☐ → P	
3 × 10 = ☐ → M	2 × 12 = ☐ → O	1 × 5 = ☐ → T	
8 × 8 = ☐ → S	5 × 11 = ☐ → V	6 × 11 = ☐ → E	
4 × 7 = ☐ → I	9 × 10 = ☐ → D	12 × 11 = ☐ → L	

Scratch space:

CLUE 4 Rounding

Detective Maya checked the hallway security scanner readout which rounded the suspect step counts.

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



Round 293 to the nearest ten ☐ → A

Round 134 to the nearest ten ☐ → S

Round 2,266 to the nearest hundred ☐ → H

Round 291 to the nearest hundred ☐ → T

Round 700 to the nearest hundred ☐ → N

Round 4,266 to the nearest hundred ☐ → W

Round 232 to the nearest ten ☐ → Y

Round 426 to the nearest ten ☐ → R

Round 17 to the nearest ten ☐ → E

Round 5,043 to the nearest thousand ☐ → F

Round 474 to the nearest hundred ☐ → L

Round 1,689 to the nearest hundred ☐ → I

Round 1,107 to the nearest hundred ☐ → U

Round 112 to the nearest ten ☐ → C

Scratch space:

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

Detective Maya divided the leftover raffle tickets equally among the suspects to reveal the final code.

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:

5 ÷ 5 = ☐ 22 ÷ 11 = ☐ 77 ÷ 7 = ☐ 64 ÷ 8 = ☐ 32 ÷ 8 = ☐

45 ÷ 9 = ☐ 30 ÷ 5 = ☐ 144 ÷ 12 = ☐ 110 ÷ 11 = ☐ 90 ÷ 10 = ☐

12 ÷ 4 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain blasted the loud megaphone, then signed with a red pen.
2. The villain blasted the loud megaphone, then stuck notes everywhere.
3. The villain zoomed away on a scooter, then stuck notes everywhere.
4. The villain zoomed away with a hall pass, then stuck notes everywhere.
5. The villain blasted the loud megaphone, then flashed a monitor badge.
6. The villain fired the homework cannon, then stuck notes everywhere.
7. The villain zoomed away with a hall pass, then flashed a monitor badge.
8. The villain fired the homework cannon, then signed with a red pen.
9. The villain popped a giant glitter bomb, then stuck notes everywhere.
10. The villain zoomed away on a scooter, then drew with a stencil set.
11. The villain popped a giant glitter bomb, then signed with a red pen.
12. The villain zoomed away with a hall pass, then signed with a red pen.

TEACHER / PARENT

Answer Key

The Great Hallway Hijack

Culprit: Casey

Hall Pass · Hall Monitor Badge · Left Handed · Curly Hair · Flashlight Beam

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

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A STENCIL SET"

What is the value of the 1 in 7,517? = 10 (T) · What is the value of the 1 in 71,068? = 1000 (A) · What is the value of the 7 in 274? = 70 (U) · What is the value of the 5 in 8,452? = 50 (E) · What is the value of the 6 in 9,627? = 600 (O) · What is the value of the 4 in 4,571? = 4000 (I) · What is the value of the 3 in 9,320? = 300 (C) · What is the value of the 2 in 2,301? = 2000 (L) · What is the value of the 4 in 477? = 400 (N) · What is the value of the 2 in 9,217? = 200 (D) · What is the value of the 3 in 3,874? = 3000 (V) · What is the value of the 5 in 7,517? = 500 (S) · What is the value of the 3 in 6,632? = 30 (H)

Clue 2 (Addition): "THE CULPRIT WAS LEFT HANDED"

3934 + 3818 = 7752 (T) · 3192 + 3351 = 6543 (N) · 2221 + 1110 = 3331 (I) · 3015 + 5048 = 8063 (W) · 4141 + 5127 = 9268 (S) · 3481 + 4732 = 8213 (C) · 3998 + 1758 = 5756 (A) · 1672 + 2441 = 4113 (H) · 5548 + 2758 = 8306 (D) · 3144 + 2868 = 6012 (U) · 1280 + 804 = 2084 (E) · 2435 + 3559 = 5994 (P) · 1863 + 3462 = 5325 (L) · 6641 + 3083 = 9724 (R) · 3600 + 4182 = 7782 (F)

Clue 3 (Multiplication facts (1-12)): "A FLASHLIGHT BEAM STOPPED THE VILLAIN"

1 × 1 = 1 (A) · 7 × 7 = 49 (N) · 9 × 12 = 108 (H) · 8 × 4 = 32 (G) · 9 × 9 = 81 (B) · 2 × 11 = 22 (F) · 4 × 12 = 48 (P) · 3 × 10 = 30 (M) · 2 × 12 = 24 (O) · 1 × 5 = 5 (T) · 8 × 8 = 64 (S) · 5 × 11 = 55 (V) · 6 × 11 = 66 (E) · 4 × 7 = 28 (I) · 9 × 10 = 90 (D) · 12 × 11 = 132 (L)

Clue 4 (Rounding): "A CURLY HAIR WAS LEFT AT THE SCENE"

Round 293 to the nearest ten = 290 (A) · Round 134 to the nearest ten = 130 (S) · Round 2,266 to the nearest hundred = 2300 (H) · Round 291 to the nearest hundred = 300 (T) · Round 700 to the nearest hundred = 700 (N) · Round 4,266 to the nearest hundred = 4300 (W) · Round 232 to the nearest ten = 230 (Y) · Round 426 to the nearest ten = 430 (R) · Round 17 to the nearest ten = 20 (E) · Round 5,043 to the nearest thousand = 5000 (F) · Round 474 to the nearest hundred = 500 (L) · Round 1,689 to the nearest hundred = 1700 (I) · Round 1,107 to the nearest hundred = 1100 (U) · Round 112 to the nearest ten = 110 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Casey

5 ÷ 5 = 1 · 22 ÷ 11 = 2 · 77 ÷ 7 = 11 · 64 ÷ 8 = 8 · 32 ÷ 8 = 4 · 45 ÷ 9 = 5 · 30 ÷ 5 = 6 · 144 ÷ 12 = 12 · 110 ÷ 11 = 10 · 90 ÷ 10 = 9 · 12 ÷ 4 = 3