



The Tokyo Toy Tower Caper

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

Detective: _____ Date: _____

A sneaky villain has swiped the Golden Robo-Kitty from the highest room of the Tokyo Toy Tower! The museum curator is super sad. We must search the bright neon rooms and use our detective skills to find who took it.

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 Toy Thief is _____

Possible suspects

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

NAME	NEON GADGET	ORIGAMI SKILL	CHOPSTICK HAND	ANIME HAIR DYE	DISTRACTION
Miyu	Sonic Toy Whistle	Paper Kabuto Helmet	Left Chopstick Hand	Bright Blue Ponytail	Cute Fluffy Cat Toy
Shin	Sonic Toy Whistle	Paper Shuriken Throw	Right Chopstick Hand	Bright Blue Ponytail	Loud Karaoke Singing
Kenji	Robo Beetle Remote	Paper Shuriken Throw	Left Chopstick Hand	Neon Green Spikes	Cold Matcha Ice Cream
Taiga	Glow Paint Blaster	Paper Frog Jumper	Left Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy
Yua	Laser Jump Rope	Paper Dragon Shield	Right Chopstick Hand	Spiky Pink Hair	Cold Matcha Ice Cream
Hana	Super Magnet Glove	Paper Kabuto Helmet	Left Chopstick Hand	Spiky Pink Hair	Cute Fluffy Cat Toy
Mei	Glow Paint Blaster	Paper Dragon Shield	Right Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy
Nanami	Super Magnet Glove	Paper Shuriken Throw	Right Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy
Sakura	Super Magnet Glove	Paper Crane Flyer	Right Chopstick Hand	Spiky Pink Hair	Cute Fluffy Cat Toy
Yuki	Super Magnet Glove	Paper Frog Jumper	Right Chopstick Hand	Neon Green Spikes	Loud Karaoke Singing
Yuto	Super Magnet Glove	Paper Crane Flyer	Right Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy
Hiro	Robo Beetle Remote	Paper Shuriken Throw	Right Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy
Himari	Glow Paint Blaster	Paper Kabuto Helmet	Right Chopstick Hand	Bright Blue Ponytail	Loud Karaoke Singing
Sora	Glow Paint Blaster	Paper Kabuto Helmet	Left Chopstick Hand	Bright Blue Ponytail	Loud Karaoke Singing
Manami	Laser Jump Rope	Paper Dragon Shield	Left Chopstick Hand	Bright Blue Ponytail	Cute Fluffy Cat Toy
Aoi	Sonic Toy Whistle	Paper Dragon Shield	Right Chopstick Hand	Bright Blue Ponytail	Cute Fluffy Cat Toy
Riku	Sonic Toy Whistle	Paper Frog Jumper	Left Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy
Akio	Sonic Toy Whistle	Paper Frog Jumper	Right Chopstick Hand	Neon Green Spikes	Loud Karaoke Singing
Ren	Laser Jump Rope	Paper Frog Jumper	Right Chopstick Hand	Bright Blue Ponytail	Loud Karaoke Singing
Koki	Super Magnet Glove	Paper Frog Jumper	Left Chopstick Hand	Bright Blue Ponytail	Cold Matcha Ice Cream
Daiki	Super Magnet Glove	Paper Kabuto Helmet	Right Chopstick Hand	Neon Green Spikes	Cute Fluffy Cat Toy

CLUE 1 Place value

We look at the neon scoreboard on the toy wall. The digits are scrambled, but finding the value of the digit in the hundreds place unlocks our first hint.

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

T			T														
100	20	8000	100	20	70	8000	1000	20	50	40	30	900	7000	50	7000	8000	400
3000	400	50	700	900	30	40	20	70	8000	2000	3000						

What is the value of the 1 in 120? → **T**

What is the value of the 4 in 3,146? → **S**

What is the value of the 1 in 1,550? → **F**

What is the value of the 7 in 7,109? → **P**

What is the value of the 5 in 6,253? → **A**

What is the value of the 7 in 8,973? → **I**

What is the value of the 9 in 3,926? → **O**

What is the value of the 2 in 1,321? → **H**

What is the value of the 4 in 7,472? → **R**

What is the value of the 8 in 8,303? → **E**

What is the value of the 3 in 434? → **N**

What is the value of the 2 in 82,449? → **L**

What is the value of the 3 in 93,402? → **D**

What is the value of the 7 in 5,716? → **G**

Scratch space:

CLUE 2 Rounding

A glowing radar screen tracks how fast the thief fled. The screen only shows speeds rounded to the nearest ten, giving us a clear estimate of where they ran.

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

T 1700	2000	20	T 1700	2000	290	20	300	2000	20	130	1300	T 1700	2000	20		
170	T 1700	290	90	2300	170	290	4300	500	290	9000	2000	T 1700	2000	3000	4300	1300

Round 1,722 to the nearest hundred →

T

Round 4,258 to the nearest hundred →

N

Round 130 to the nearest ten →

L

Round 3,440 to the nearest thousand →

A

Round 19 to the nearest ten →

E

Round 275 to the nearest hundred →

F

Round 86 to the nearest ten →

C

Round 9,425 to the nearest thousand →

G

Round 166 to the nearest ten →

S

Round 286 to the nearest ten →

I

Round 502 to the nearest hundred →

R

Round 2,340 to the nearest hundred →

K

Round 1,514 to the nearest thousand →

H

Round 1,260 to the nearest hundred →

D

Scratch space:

CLUE 3 **Addition**

We count the empty toy boxes scattered across the room. Adding the different piles together tells us exactly how many gadgets the thief grabbed.

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

A 6436	4719	4827	5903	3430	4719	A 6436	5903	5903	7132	2648	5903	7132	5903	A 6436	2388	2388	2648
7722	7957	6940	5903	3390	A 6436	4719	5903	3430	7722	5903	5239	3430	2751				

$2151 + 4285 = \square \rightarrow \boxed{\text{A}}$

$1752 + 999 = \square \rightarrow \boxed{\text{M}}$

$2642 + 2597 = \square \rightarrow \boxed{\text{H}}$

$1493 + 895 = \square \rightarrow \boxed{\text{L}}$

$3254 + 4468 = \square \rightarrow \boxed{\text{D}}$

$2203 + 2516 = \square \rightarrow \boxed{\text{C}}$

$1655 + 993 = \square \rightarrow \boxed{\text{Y}}$

$1886 + 1544 = \square \rightarrow \boxed{\text{E}}$

$4119 + 1784 = \square \rightarrow \boxed{\text{T}}$

$2639 + 5318 = \square \rightarrow \boxed{\text{I}}$

$3675 + 3265 = \square \rightarrow \boxed{\text{S}}$

$1457 + 1933 = \square \rightarrow \boxed{\text{R}}$

$1551 + 3276 = \square \rightarrow \boxed{\text{U}}$

$3787 + 3345 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4 Subtraction

The display case started with a large collection of robot figures. Subtracting the ones left behind shows how many are missing from the shelf.

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

G										G						
5154	5765	2156	2156	7743	8499	8958	4052	5765	5154	2156	6928	3538	8958	6867		
6867	1566	4052	6928	6928	2156	8474	7743	2156	8958	5765	5019	8499	2156	5019	3359	1037

$5432 - 278 = \square \rightarrow \text{G}$

$4259 - 721 = \square \rightarrow \text{W}$

$7254 - 3895 = \square \rightarrow \text{O}$

$11430 - 3687 = \square \rightarrow \text{N}$

$3530 - 1964 = \square \rightarrow \text{P}$

$9309 - 2442 = \square \rightarrow \text{S}$

$7656 - 1891 = \square \rightarrow \text{R}$

$9511 - 553 = \square \rightarrow \text{A}$

$11215 - 4287 = \square \rightarrow \text{L}$

$6934 - 4778 = \square \rightarrow \text{E}$

$10095 - 1596 = \square \rightarrow \text{H}$

$12995 - 4521 = \square \rightarrow \text{D}$

$2314 - 1277 = \square \rightarrow \text{Y}$

$8501 - 3482 = \square \rightarrow \text{T}$

$6717 - 2665 = \square \rightarrow \text{I}$

Scratch space:

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

We find a stash of colorful game tokens. Splitting them evenly among our detective team reveals the final clue hidden inside the last cup.

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:

$44 \div 4 = \boxed{}$

$50 \div 10 = \boxed{}$

$36 \div 6 = \boxed{}$

$20 \div 5 = \boxed{}$

$2 \div 1 = \boxed{}$

$90 \div 9 = \boxed{}$

$72 \div 9 = \boxed{}$

$60 \div 5 = \boxed{}$

$9 \div 3 = \boxed{}$

$21 \div 3 = \boxed{}$

$11 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sends a robotic beetle into the vault, then hops out the window with a paper frog.
2. The villain jumps over the security lasers, then hides their face under a paper helmet.
3. The villain jumps over the security lasers, then hops out the window with a paper frog.
4. The villain zaps the display case with a magnet, then blocks the cameras using a paper dragon.
5. The villain zaps the display case with a magnet, then tosses a paper shuriken at the alarm.
6. The villain zaps the display case with a magnet, then hides their face under a paper helmet.
7. The villain jumps over the security lasers, then tosses a paper shuriken at the alarm.
8. The villain sprays glowing neon paint everywhere, then blocks the cameras using a paper dragon.
9. The villain zaps the display case with a magnet, then glides away on a folded paper crane.
10. The villain blows a loud sonic toy whistle, then hides their face under a paper helmet.
11. The villain sends a robotic beetle into the vault, then tosses a paper shuriken at the alarm.
12. The villain blows a loud sonic toy whistle, then tosses a paper shuriken at the alarm.

Answer Key

The Tokyo Toy Tower Caper

Culprit: Yuto

Super Magnet Glove · Paper Crane Flyer · Right Chopstick Hand · Neon Green Spikes · Cute Fluffy Cat Toy

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

Clue 1 (Place value): "THE THIEF HAS NO PAPER DRAGON SHIELD"

What is the value of the 1 in 120? = 100 (T) · What is the value of the 4 in 3,146? = 40 (S) · What is the value of the 1 in 1,550? = 1000 (F) · What is the value of the 7 in 7,109? = 7000 (P) · What is the value of the 5 in 6,253? = 50 (A) · What is the value of the 7 in 8,973? = 70 (I) · What is the value of the 9 in 3,926? = 900 (O) · What is the value of the 2 in 1,321? = 20 (H) · What is the value of the 4 in 7,472? = 400 (R) · What is the value of the 8 in 8,303? = 8000 (E) · What is the value of the 3 in 434? = 30 (N) · What is the value of the 2 in 82,449? = 2000 (L) · What is the value of the 3 in 93,402? = 3000 (D) · What is the value of the 7 in 5,716? = 700 (G)

Clue 2 (Rounding): "THE THIEF HELD THE STICKS IN RIGHT HAND"

Round 1,722 to the nearest hundred = 1700 (T) · Round 4,258 to the nearest hundred = 4300 (N) · Round 130 to the nearest ten = 130 (L) · Round 3,440 to the nearest thousand = 3000 (A) · Round 19 to the nearest ten = 20 (E) · Round 275 to the nearest hundred = 300 (F) · Round 86 to the nearest ten = 90 (C) · Round 9,425 to the nearest thousand = 9000 (G) · Round 166 to the nearest ten = 170 (S) · Round 286 to the nearest ten = 290 (I) · Round 502 to the nearest hundred = 500 (R) · Round 2,340 to the nearest hundred = 2300 (K) · Round 1,514 to the nearest thousand = 2000 (H) · Round 1,260 to the nearest hundred = 1300 (D)

Clue 3 (Addition): "A CUTE CAT TOY TOTALLY DISTRACTED THEM"

$2151 + 4285 = 6436$ (A) · $1752 + 999 = 2751$ (M) · $2642 + 2597 = 5239$ (H) · $1493 + 895 = 2388$ (L) · $3254 + 4468 = 7722$ (D) · $2203 + 2516 = 4719$ (C) · $1655 + 993 = 2648$ (Y) · $1886 + 1544 = 3430$ (E) · $4119 + 1784 = 5903$ (T) · $2639 + 5318 = 7957$ (I) · $3675 + 3265 = 6940$ (S) · $1457 + 1933 = 3390$ (R) · $1551 + 3276 = 4827$ (U) · $3787 + 3345 = 7132$ (O)

Clue 4 (Subtraction): "GREEN HAIR GEL WAS SPILLED NEAR THE TOY"

$5432 - 278 = 5154$ (G) · $4259 - 721 = 3538$ (W) · $7254 - 3895 = 3359$ (O) · $11430 - 3687 = 7743$ (N) · $3530 - 1964 = 1566$ (P) · $9309 - 2442 = 6867$ (S) · $7656 - 1891 = 5765$ (R) · $9511 - 553 = 8958$ (A) · $11215 - 4287 = 6928$ (L) · $6934 - 4778 = 2156$ (E) · $10095 - 1596 = 8499$ (H) · $12995 - 4521 = 8474$ (D) · $2314 - 1277 = 1037$ (Y) · $8501 - 3482 = 5019$ (T) · $6717 - 2665 = 4052$ (I)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Yuto

$44 \div 4 = 11$ · $50 \div 10 = 5$ · $36 \div 6 = 6$ · $20 \div 5 = 4$ · $2 \div 1 = 2$ · $90 \div 9 = 10$ · $72 \div 9 = 8$ · $60 \div 5 = 12$ · $9 \div 3 = 3$ · $21 \div 3 = 7$ · $11 \div 11 = 1$