



The Great Catnip Trophy Caper

Grade 3 math · Addition, Subtraction, Word problems, Place value, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

The shiny Golden Catnip Trophy has been swiped right out of the hotel lobby! The culprit left pawprints everywhere, and the Head Groomer is in a panic. We need to follow the clues, solve the puzzles, and find the thief before they escape the hotel grounds!

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 cat burglar is _____

Possible suspects

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

NAME	SPECIAL GADGET	SECRET TRICK	PAWED HABIT	FUR COAT	PET PEEVE
Cleo	Super Spring Shoes	Silent Paw Walk	Left Pawed	White Fluffy	Crinkly Foil Sound
Whiskers	Laser Pointer Beam	Sneaky Meow Mimic	Left Pawed	White Fluffy	Vacuum Cleaner Hum
Luna	Super Spring Shoes	Fish Treat Toss	Left Pawed	Sleek Black	Vacuum Cleaner Hum
Smokey	Laser Pointer Beam	High Wall Jump	Left Pawed	Sleek Black	Cucumber Scare
Sylvester	Tuna Scent Cloud	Silent Paw Walk	Right Pawed	Orange Tabby	Vacuum Cleaner Hum
Simba	Tuna Scent Cloud	High Wall Jump	Left Pawed	White Fluffy	Vacuum Cleaner Hum
Shadow	Tuna Scent Cloud	Fish Treat Toss	Left Pawed	Orange Tabby	Cucumber Scare
Milo	Laser Pointer Beam	Silent Paw Walk	Right Pawed	White Fluffy	Vacuum Cleaner Hum
Ziggy	Super Spring Shoes	Cardboard Box Hide	Left Pawed	Sleek Black	Vacuum Cleaner Hum
Morris	Super Spring Shoes	Cardboard Box Hide	Right Pawed	Orange Tabby	Vacuum Cleaner Hum
Felix	Mega Yarn Roller	Cardboard Box Hide	Left Pawed	White Fluffy	Vacuum Cleaner Hum
Gizmo	Mega Yarn Roller	Cardboard Box Hide	Left Pawed	Sleek Black	Vacuum Cleaner Hum
Bella	Cardboard Box Shield	Cardboard Box Hide	Right Pawed	Sleek Black	Vacuum Cleaner Hum
Nala	Mega Yarn Roller	Cardboard Box Hide	Right Pawed	Orange Tabby	Vacuum Cleaner Hum
Mittens	Tuna Scent Cloud	Fish Treat Toss	Left Pawed	Sleek Black	Vacuum Cleaner Hum
Marmalade	Cardboard Box Shield	Cardboard Box Hide	Right Pawed	Sleek Black	Cucumber Scare
Buster	Super Spring Shoes	High Wall Jump	Left Pawed	Sleek Black	Cucumber Scare
Boots	Mega Yarn Roller	Cardboard Box Hide	Left Pawed	White Fluffy	Crinkly Foil Sound
Garfield	Tuna Scent Cloud	Cardboard Box Hide	Left Pawed	Orange Tabby	Crinkly Foil Sound
Oliver	Cardboard Box Shield	Sneaky Meow Mimic	Right Pawed	Sleek Black	Cucumber Scare
Socks	Tuna Scent Cloud	Silent Paw Walk	Left Pawed	Sleek Black	Vacuum Cleaner Hum

CLUE 1 Addition

Detective Whiskers needs to count up all the lost toy mice in the play area. Let's add up the boxes of toys to find our first clue!

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

T			T											T			
849	464	527	849	464	282	527	801	392	834	527	209	400	834	849	610	209	527
					T												
209	282	221	527	400	849	939	634	439	439	634	221	637					

$581 + 268 = \square \rightarrow \text{[T]}$	$137 + 72 = \square \rightarrow \text{[S]}$	$70 + 151 = \square \rightarrow \text{[L]}$
$165 + 362 = \square \rightarrow \text{[E]}$	$175 + 289 = \square \rightarrow \text{[H]}$	$196 + 86 = \square \rightarrow \text{[I]}$
$163 + 276 = \square \rightarrow \text{[W]}$	$443 + 191 = \square \rightarrow \text{[A]}$	$177 + 223 = \square \rightarrow \text{[N]}$
$563 + 271 = \square \rightarrow \text{[O]}$	$388 + 413 = \square \rightarrow \text{[F]}$	$281 + 356 = \square \rightarrow \text{[K]}$
$310 + 629 = \square \rightarrow \text{[P]}$	$208 + 402 = \square \rightarrow \text{[U]}$	$244 + 148 = \square \rightarrow \text{[D]}$

Scratch space:

CLUE 2 Subtraction

Oh no! A sneaky stray swiped some of our catnip treats. Subtract the stolen treats from the jar to uncover the next clue!

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

T			T														
555	415	158	555	415	629	158	485	455	367	818	640	297	790	629	899	158	297
		T		T								T					
790	629	555	415	555	415	158	629	633	818	158	485	555	899	145	790		

$898 - 343 = \square \rightarrow$ T	$788 - 148 = \square \rightarrow$ Y	$873 - 240 = \square \rightarrow$ R
$767 - 352 = \square \rightarrow$ H	$232 - 87 = \square \rightarrow$ A	$687 - 320 = \square \rightarrow$ N
$1132 - 233 = \square \rightarrow$ P	$171 - 13 = \square \rightarrow$ E	$597 - 142 = \square \rightarrow$ O
$480 - 183 = \square \rightarrow$ S	$882 - 253 = \square \rightarrow$ I	$618 - 133 = \square \rightarrow$ F
$1142 - 324 = \square \rightarrow$ L	$936 - 146 = \square \rightarrow$ W	

Scratch space:

CLUE 3

Word problems

We found a map with rows of scratching posts. Solve this word problem about sharing cat toys to trace the thief's path.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

V **N** **R** **H** .

56 36 22 27 27 69 22 73 76 36 76 27 69

The Deputy Kitten lined up 7 rows of 8 catnip treats. How many catnip treats in all?

Answer: → **V**

The Deputy Kitten found 24 squeaky mouse yesterday and 3 more today. How many squeaky mouse in all?

Answer: → **U**

There were 100 squeaky mouse. 31 were used up. How many squeaky mouse are left?

Answer: → **M**

The Deputy Kitten lined up 6 rows of 6 scratching post. How many scratching post in all?

Answer: → **A**

The Deputy Kitten found 4 squeaky mouse yesterday and 18 more today. How many squeaky mouse in all?

Answer: → **C**

There were 104 scratching post. 31 were used up. How many scratching post are left?

Answer: → **L**

There were 105 ball of yarn. 29 were used up. How many ball of yarn are left?

Answer: → **E**

Scratch space:

CLUE 4 Place value

The digital security collar of the guard cat flashed a broken code. Break down the digit values to read the secret file!

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

A										A				
2000	1000	20	900	90	3000	6000	1000	70	400	2000	900	200	60	7000

							A						A	
1000	3000	6000	6000	5000	100	3000	2000	500	5000	7000	600	400	40	2000

7000	60	600	900	200

What is the value of the 2 in 2,854? → **A**

What is the value of the 1 in 61,746? → **S**

What is the value of the 2 in 1,287? → **D**

What is the value of the 9 in 295? → **G**

What is the value of the 5 in 75,093? → **K**

What is the value of the 6 in 261? → **O**

What is the value of the 7 in 4,871? → **T**

What is the value of the 5 in 2,523? → **C**

What is the value of the 4 in 458? → **R**

What is the value of the 7 in 57,186? → **F**

What is the value of the 3 in 13,557? → **L**

What is the value of the 6 in 1,647? → **U**

What is the value of the 1 in 164? → **B**

What is the value of the 9 in 7,978? → **N**

What is the value of the 4 in 849? → **W**

What is the value of the 6 in 6,298? → **E**

What is the value of the 2 in 725? → **I**

Scratch space:

CLUE 5**Missing addends - the last clue**

The tuna buffet is missing some cans! We know the total we bought and how many are left on the shelf. Solve for the missing cans to catch the culprit!

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:

$1 + \underline{\quad} = 4$

$6 + \underline{\quad} = 8$

$3 + \underline{\quad} = 14$

$1 + \underline{\quad} = 11$

$5 + \underline{\quad} = 13$

$3 + \underline{\quad} = 7$

$7 + \underline{\quad} = 13$

$5 + \underline{\quad} = 14$

$7 + \underline{\quad} = 12$

$9 + \underline{\quad} = 16$

$2 + \underline{\quad} = 3$

Step 2 - cross out the sentence with each answer:

1. The villain shined a laser pointer beam, then distracted the guard with a fish treat toss.
2. The villain bounced up high with super spring shoes, then distracted the guard with a fish treat toss.
3. The villain sprayed a tuna scent cloud, then distracted the guard with a fish treat toss.
4. The villain huddled under a cardboard box shield, then distracted the guard with a fish treat toss.
5. The villain shined a laser pointer beam, then tricked the guard with a sneaky meow mimic.
6. The villain sprayed a tuna scent cloud, then crept away with a silent paw walk.
7. The villain rolled a giant yarn ball, then leaped over the high wall.
8. The villain rolled a giant yarn ball, then tricked the guard with a sneaky meow mimic.
9. The villain huddled under a cardboard box shield, then leaped over the high wall.
10. The villain shined a laser pointer beam, then dove inside a cardboard box.
11. The villain bounced up high with super spring shoes, then dove inside a cardboard box.
12. The villain rolled a giant yarn ball, then dove inside a cardboard box.

Answer Key

The Great Catnip Trophy Caper

Culprit: Gizmo

Mega Yarn Roller · Cardboard Box Hide · Left Pawed · Sleek Black · Vacuum Cleaner Hum

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT USE SILENT PAW WALK"

$581 + 268 = 849$ (T) · $137 + 72 = 209$ (S) · $70 + 151 = 221$ (L) · $165 + 362 = 527$ (E) · $175 + 289 = 464$ (H) · $196 + 86 = 282$ (I) · $163 + 276 = 439$ (W) · $443 + 191 = 634$ (A) · $177 + 223 = 400$ (N) · $563 + 271 = 834$ (O) · $388 + 413 = 801$ (F) · $281 + 356 = 637$ (K) · $310 + 629 = 939$ (P) · $208 + 402 = 610$ (U) · $244 + 148 = 392$ (D)

Clue 2 (Subtraction): "THE THIEF ONLY SWIPES WITH THEIR LEFT PAW"

$898 - 343 = 555$ (T) · $788 - 148 = 640$ (Y) · $873 - 240 = 633$ (R) · $767 - 352 = 415$ (H) · $232 - 87 = 145$ (A) · $687 - 320 = 367$ (N) · $1132 - 233 = 899$ (P) · $171 - 13 = 158$ (E) · $597 - 142 = 455$ (O) · $480 - 183 = 297$ (S) · $882 - 253 = 629$ (I) · $618 - 133 = 485$ (F) · $1142 - 324 = 818$ (L) · $936 - 146 = 790$ (W)

Clue 3 (Word problems): "VACUUM CLEANER HUM"

The Deputy Kitten lined up 7 rows of 8 catnip treats. How many catnip treats in all? = 56 (V) · The Deputy Kitten found 24 squeaky mouse yesterday and 3 more today. How many squeaky mouse in all? = 27 (U) · There were 100 squeaky mouse. 31 were used up. How many squeaky mouse are left? = 69 (M) · The Deputy Kitten lined up 6 rows of 6 scratching post. How many scratching post in all? = 36 (A) · The Deputy Kitten found 4 squeaky mouse yesterday and 18 more today. How many squeaky mouse in all? = 22 (C) · There were 104 scratching post. 31 were used up. How many scratching post are left? = 73 (L) · There were 105 ball of yarn. 29 were used up. How many ball of yarn are left? = 76 (E)

Clue 4 (Place value): "A SINGLE STRAND OF SLEEK BLACK FUR WAS FOUND"

What is the value of the 2 in 2,854? = 2000 (A) · What is the value of the 1 in 61,746? = 1000 (S) · What is the value of the 2 in 1,287? = 200 (D) · What is the value of the 9 in 295? = 90 (G) · What is the value of the 5 in 75,093? = 5000 (K) · What is the value of the 6 in 261? = 60 (O) · What is the value of the 7 in 4,871? = 70 (T) · What is the value of the 5 in 2,523? = 500 (C) · What is the value of the 4 in 458? = 400 (R) · What is the value of the 7 in 57,186? = 7000 (F) · What is the value of the 3 in 13,557? = 3000 (L) · What is the value of the 6 in 1,647? = 600 (U) · What is the value of the 1 in 164? = 100 (B) · What is the value of the 9 in 7,978? = 900 (N) · What is the value of the 4 in 849? = 40 (W) · What is the value of the 6 in 6,298? = 6000 (E) · What is the value of the 2 in 725? = 20 (I)

Clue 5 (Missing addends): surviving statement is box 12 → Gizmo

$1 + \underline{\quad} = 4 = 3$ · $6 + \underline{\quad} = 8 = 2$ · $3 + \underline{\quad} = 14 = 11$ · $1 + \underline{\quad} = 11 = 10$ · $5 + \underline{\quad} = 13 = 8$ · $3 + \underline{\quad} = 7 = 4$ · $7 + \underline{\quad} = 13 = 6$ · $5 + \underline{\quad} = 14 = 9$ · $7 + \underline{\quad} = 12 = 5$ · $9 + \underline{\quad} = 16 = 7$ · $2 + \underline{\quad} = 3 = 1$