



The Great Catnip Trophy Caper

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

Detective: _____ **Date:** _____

A sneaky cat burglar has stolen the legendary Golden Catnip Trophy from the Mew York Kitty Club! We need to follow the pawprints, check the clues, and find out which kitty did it before they nap!

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	FAVORITE TOY	SUPER SKILL	DOMINANT PAW	FUR PATTERN	DISTRACTION
Milo	crinkle ball	silent walking	right pawed	solid tuxedo	cardboard boxes
Bella	catnip mouse	high jumping	left pawed	tabby stripes	scratching posts
Oscar	yarn skein	wall climbing	left pawed	solid tuxedo	tuna snacks
Simba	laser pointer	fish catching	right pawed	solid tuxedo	cardboard boxes
Sir Pawsalot	yarn skein	fish catching	right pawed	tabby stripes	cardboard boxes
Miss Whisker	catnip mouse	box squeezing	left pawed	tabby stripes	tuna snacks
Sylvester	crinkle ball	silent walking	right pawed	solid tuxedo	scratching posts
Luna	catnip mouse	box squeezing	right pawed	tabby stripes	scratching posts
Ziggy	catnip mouse	silent walking	right pawed	solid tuxedo	cardboard boxes
Gizmo	laser pointer	box squeezing	right pawed	solid tuxedo	scratching posts
Oliver	feather wand	box squeezing	right pawed	calico patches	cardboard boxes
Lady Purr	crinkle ball	fish catching	left pawed	solid tuxedo	cardboard boxes
Felix	laser pointer	wall climbing	left pawed	calico patches	cardboard boxes
Tom	yarn skein	wall climbing	right pawed	solid tuxedo	cardboard boxes
Max	feather wand	wall climbing	right pawed	calico patches	cardboard boxes
Tiger	feather wand	silent walking	left pawed	solid tuxedo	scratching posts
Loki	catnip mouse	silent walking	left pawed	tabby stripes	tuna snacks
Chloe	crinkle ball	box squeezing	left pawed	solid tuxedo	scratching posts
Cleo	crinkle ball	high jumping	right pawed	solid tuxedo	cardboard boxes
Captain Meow	yarn skein	wall climbing	left pawed	solid tuxedo	cardboard boxes
Garfield	feather wand	silent walking	right pawed	calico patches	cardboard boxes

CLUE 1 Place value

The security screen has a strange digital lock with hundreds, tens, and ones blocks. Solve the place value puzzle to unlock the security tape!

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

T			T										T			T		
9000	90	70	9000	90	6000	70	200	4000	600	1000	1000	500	9000	4000	600	9000	4000	90

200	6000	3000	90

What is the value of the 9 in 49,088? → **T**

What is the value of the 1 in 1,437? → **N**

What is the value of the 4 in 54,815? → **C**

What is the value of the 9 in 2,790? → **H**

What is the value of the 6 in 6,399? → **I**

What is the value of the 5 in 534? → **O**

What is the value of the 3 in 13,751? → **S**

What is the value of the 2 in 5,270? → **F**

What is the value of the 6 in 600? → **A**

What is the value of the 7 in 5,575? → **E**

Scratch space:

CLUE 2

To find the next clue, we must count all the toys left on the floor. Add the toy mice and balls together to get the total!

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

841 539 915 277 443 885

722 893 505 885 613 625

$$582 + 259 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$277 + 445 = \boxed{} \rightarrow \boxed{\text{L}}$$

$195 + 344 = \boxed{} \rightarrow \boxed{\text{R}}$

$557 + 384 = \boxed{} \rightarrow \boxed{\text{P}}$

$107 + 170 = \boxed{} \rightarrow \boxed{\text{G}}$

$$587 + 328 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$291 + 322 = \boxed{} \rightarrow \boxed{0}$$

$$624 + 269 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$254 + 251 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$423 + 202 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$193 + 250 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$173 + 353 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$350 + 535 = \boxed{} \rightarrow \boxed{\text{T}}$$

$201 + 303 = \boxed{} \rightarrow \boxed{\text{W}}$

Scratch space:

CLUE 3

Subtraction

The thief took some treats from the jar. Subtract the leftovers from the original pile to see how many snacks are missing!

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

T			T							T		T					
851	103	268	851	103	153	268	542	779	815	851	116	851	439	844	293	153	279
844	324	155	461	294	815	324	155	461	294	815	613	268	116				

$1017 - 166 = \square \rightarrow \boxed{\text{T}}$

$499 - 206 = \square \rightarrow \boxed{\text{K}}$

$512 - 233 = \square \rightarrow \boxed{\text{N}}$

$830 - 369 = \square \rightarrow \boxed{\text{D}}$

$964 - 351 = \square \rightarrow \boxed{\text{X}}$

$809 - 267 = \square \rightarrow \boxed{\text{F}}$

$668 - 400 = \square \rightarrow \boxed{\text{E}}$

$434 - 331 = \square \rightarrow \boxed{\text{H}}$

$1163 - 384 = \square \rightarrow \boxed{\text{G}}$

$426 - 273 = \square \rightarrow \boxed{\text{I}}$

$224 - 108 = \square \rightarrow \boxed{\text{S}}$

$675 - 381 = \square \rightarrow \boxed{\text{B}}$

$291 - 136 = \square \rightarrow \boxed{\text{R}}$

$720 - 281 = \square \rightarrow \boxed{\text{U}}$

$1081 - 237 = \square \rightarrow \boxed{\text{C}}$

$585 - 261 = \square \rightarrow \boxed{\text{A}}$

$840 - 25 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

We found rows of cat scratching posts lined up in a grid. Multiply the number of rows by the posts in each row to find the secret code!

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

I								I							
110	25	33	42	54	25	44	48	110	2	108	27	72	12	2	44
25	108	49	54	21	2	44	70	50	54	I					

$11 \times 10 = \square \rightarrow \boxed{\text{I}}$

$7 \times 7 = \square \rightarrow \boxed{\text{R}}$

$6 \times 7 = \square \rightarrow \boxed{\text{Y}}$

$12 \times 6 = \square \rightarrow \boxed{\text{X}}$

$8 \times 6 = \square \rightarrow \boxed{\text{L}}$

$11 \times 4 = \square \rightarrow \boxed{\text{O}}$

$6 \times 9 = \square \rightarrow \boxed{\text{A}}$

$1 \times 2 = \square \rightarrow \boxed{\text{D}}$

$5 \times 5 = \square \rightarrow \boxed{\text{S}}$

$10 \times 7 = \square \rightarrow \boxed{\text{F}}$

$12 \times 9 = \square \rightarrow \boxed{\text{T}}$

$11 \times 3 = \square \rightarrow \boxed{\text{P}}$

$5 \times 10 = \square \rightarrow \boxed{\text{H}}$

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

$4 \times 3 = \square \rightarrow \boxed{\text{E}}$

$3 \times 9 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

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

The friendly kittens want to share their milk boxes equally. Divide the milk boxes among the hungry kittens to reveal the final clue!

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:

$22 \div 11 = \boxed{}$

$18 \div 2 = \boxed{}$

$42 \div 6 = \boxed{}$

$50 \div 5 = \boxed{}$

$16 \div 2 = \boxed{}$

$144 \div 12 = \boxed{}$

$60 \div 10 = \boxed{}$

$4 \div 4 = \boxed{}$

$27 \div 9 = \boxed{}$

$121 \div 11 = \boxed{}$

$20 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shined the bright laser pointer, then then crept away with silent walking.
2. The villain unraveled the fuzzy yarn skein, then then scaled the wall climbing fast.
3. The villain unraveled the fuzzy yarn skein, then then made a super high jump.
4. The villain rolled the noisy crinkle ball, then then made a super high jump.
5. The villain swung the feather wand around, then then made a super high jump.
6. The villain swung the feather wand around, then then showed off fish catching skills.
7. The villain tossed the catnip mouse high, then then crept away with silent walking.
8. The villain unraveled the fuzzy yarn skein, then then escaped by box squeezing.
9. The villain rolled the noisy crinkle ball, then then crept away with silent walking.
10. The villain swung the feather wand around, then then crept away with silent walking.
11. The villain rolled the noisy crinkle ball, then then escaped by box squeezing.
12. The villain swung the feather wand around, then then scaled the wall climbing fast.

Answer Key

The Great Catnip Trophy Caper

Culprit: Cleo

crinkle ball · high jumping · right pawed · solid tuxedo · cardboard boxes

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF CANNOT CATCH FISH"

What is the value of the 9 in 49,088? = 9000 (T) · What is the value of the 1 in 1,437? = 1000 (N) · What is the value of the 4 in 54,815? = 4000 (C) · What is the value of the 9 in 2,790? = 90 (H) · What is the value of the 6 in 6,399? = 6000 (I) · What is the value of the 5 in 534? = 500 (O) · What is the value of the 3 in 13,751? = 3000 (S) · What is the value of the 2 in 5,270? = 200 (F) · What is the value of the 6 in 600? = 600 (A) · What is the value of the 7 in 5,575? = 70 (E)

Clue 2 (Addition): "A RIGHT PAWPRINT WAS LEFT ON THE GLASS"

$582 + 259 = 841$ (A) · $277 + 445 = 722$ (L) · $195 + 344 = 539$ (R) · $557 + 384 = 941$ (P) · $107 + 170 = 277$ (G) · $587 + 328 = 915$ (I) · $291 + 322 = 613$ (O) · $624 + 269 = 893$ (E) · $254 + 251 = 505$ (F) · $423 + 202 = 625$ (N) · $193 + 250 = 443$ (H) · $173 + 353 = 526$ (S) · $350 + 535 = 885$ (T) · $201 + 303 = 504$ (W)

Clue 3 (Subtraction): "THE THIEF GOT STUCK IN CARDBOARD BOXES"

$1017 - 166 = 851$ (T) · $499 - 206 = 293$ (K) · $512 - 233 = 279$ (N) · $830 - 369 = 461$ (D) · $964 - 351 = 613$ (X) · $809 - 267 = 542$ (F) · $668 - 400 = 268$ (E) · $434 - 331 = 103$ (H) · $1163 - 384 = 779$ (G) · $426 - 273 = 153$ (I) · $224 - 108 = 116$ (S) · $675 - 381 = 294$ (B) · $291 - 136 = 155$ (R) · $720 - 281 = 439$ (U) · $1081 - 237 = 844$ (C) · $585 - 261 = 324$ (A) · $840 - 25 = 815$ (O)

Clue 4 (Multiplication facts (1-12)): "I SPY A SOLID TUXEDO STRAND OF HAIR"

$11 \times 10 = 110$ (I) · $7 \times 7 = 49$ (R) · $6 \times 7 = 42$ (Y) · $12 \times 6 = 72$ (X) · $8 \times 6 = 48$ (L) · $11 \times 4 = 44$ (O) · $6 \times 9 = 54$ (A) · $1 \times 2 = 2$ (D) · $5 \times 5 = 25$ (S) · $10 \times 7 = 70$ (F) · $12 \times 9 = 108$ (T) · $11 \times 3 = 33$ (P) · $5 \times 10 = 50$ (H) · $7 \times 3 = 21$ (N) · $4 \times 3 = 12$ (E) · $3 \times 9 = 27$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Cleo

$22 \div 11 = 2$ · $18 \div 2 = 9$ · $42 \div 6 = 7$ · $50 \div 5 = 10$ · $16 \div 2 = 8$ · $144 \div 12 = 12$ · $60 \div 10 = 6$ · $4 \div 4 = 1$ · $27 \div 9 = 3$ · $121 \div 11 = 11$ · $20 \div 4 = 5$