



The Great Catnip Trophy Caper

Grade 4 math · Rounding, Word problems, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky cat burglar has swiped the legendary Golden Catnip Trophy! Officer Paws needs your help to crack the case before the Grand Catnip Festival starts. Let us solve the clues and find the thief!

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 SKILL	SECRET TRICK	PAWPRINT DIRECTION	FUR PATTERN	BIGGEST DISTRACTION
Milo	Laser Dodge	Purr Hypnosis	Left-pawed	Calico Patchwork Fur	Rustling Treat Bag
Smokey	Night Vision	Box Hiding	Right-pawed	Orange Tabby Fur	Rustling Treat Bag
Jasper	Night Vision	Box Hiding	Right-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Daisy	Silent Stalking	Squeaky Toy Mimic	Left-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Shadow	Super Jump	Purr Hypnosis	Left-pawed	Midnight Black Fur	Laser Pointer Dot
Cookie	Laser Dodge	Squeaky Toy Mimic	Left-pawed	Midnight Black Fur	Rustling Treat Bag
Cleo	Silent Stalking	Box Hiding	Left-pawed	Calico Patchwork Fur	Laser Pointer Dot
Chloe	Silent Stalking	Purr Hypnosis	Left-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Patches	Laser Dodge	Squeaky Toy Mimic	Left-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Simba	Laser Dodge	Yarn Untangling	Right-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Ziggy	Wall Climbing	Shadow Melting	Left-pawed	Orange Tabby Fur	Rustling Treat Bag
Sylvester	Super Jump	Shadow Melting	Right-pawed	Orange Tabby Fur	Squeaky Mouse Toy
Tom	Silent Stalking	Shadow Melting	Left-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Whiskers	Laser Dodge	Shadow Melting	Right-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Luna	Super Jump	Box Hiding	Left-pawed	Calico Patchwork Fur	Squeaky Mouse Toy
Mittens	Laser Dodge	Purr Hypnosis	Left-pawed	Calico Patchwork Fur	Laser Pointer Dot
Rusty	Laser Dodge	Squeaky Toy Mimic	Left-pawed	Midnight Black Fur	Laser Pointer Dot
Gizmo	Laser Dodge	Shadow Melting	Right-pawed	Midnight Black Fur	Laser Pointer Dot
Socks	Silent Stalking	Purr Hypnosis	Left-pawed	Calico Patchwork Fur	Rustling Treat Bag
Felix	Silent Stalking	Shadow Melting	Left-pawed	Orange Tabby Fur	Squeaky Mouse Toy
Peanut	Laser Dodge	Box Hiding	Right-pawed	Calico Patchwork Fur	Squeaky Mouse Toy

CLUE 1

Our first lead is a list of toy mouse shipments in the Meowseum files. Help Officer Paws count the inventory groups to see who was snooping around the warehouse.

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

3700 900 430 7000 9000 3700 170 70 300 110 4300 9000 300 7000 9000 700 700 50 3700

70 130 430 170 50 230 900 1700 1300 1700 700 110

Round 3,731 to the nearest hundred $\rightarrow$ **T**

Round 168 to the nearest ten $\rightarrow$ **B**

Round 660 to the nearest hundred $\rightarrow$ **N**

Round 128 to the nearest ten $\rightarrow$ **S**

Round 9,018 to the nearest thousand → **A**

Round 6,993 to the nearest thousand → **C**

Round 4,252 to the nearest hundred → **L**

Round 48 to the nearest ten $\rightarrow$

Round 231 to the nearest ten $\rightarrow$ **X**

Round 1,711 to the nearest hundred $\rightarrow$

Round 297 to the nearest hundred $\rightarrow$ **R**

Round 106 to the nearest ten $\rightarrow$ **G**

Round 1,281 to the nearest hundred → **D**

Round 71 to the nearest ten → **U**

Round 924 to the nearest hundred → **H**

Round 431 to the nearest ten → **E**

Scratch space:

CLUE 2

Word problems

The suspect was spotted on the security camera, but the digital timer on the screen was fuzzy. We need to round the seconds to the nearest ten to find the right video clip.

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

A witness saw the villain was L D .

55 36 75 66 54 16 34 36

Patrol kitten found 25 toy mice yesterday and 30 more today. How many toy mice in all?

Answer: → L

There were 84 yarn balls. 9 were used up. How many yarn balls are left?

Answer: → F

Patrol kitten lined up 2 rows of 8 yarn balls. How many yarn balls in all?

Answer: → A

Patrol kitten lined up 11 rows of 6 tuna cans. How many tuna cans in all?

Answer: → T

There were 49 toy mice. 15 were used up. How many toy mice are left?

Answer: → W

Patrol kitten lined up 4 rows of 9 catnip treats. How many catnip treats in all?

Answer: → E

Patrol kitten found 44 yarn balls yesterday and 10 more today. How many yarn balls in all?

Answer: → P

Scratch space:

CLUE 3 Addition

We found a pile of dropped shiny collar bells in the garden. Let us add them all up to see how many bells the burglar lost while running away.

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

T			T							T							
2249	5143	2386	2249	5143	8423	2386	2628	7337	2249	4366	3466	7337	2628	4366	7583	8895	

											T			
7337	2272	9512	2386	8895	2688	2776	8277	4366	9512	7337	2386	2249	4366	2776

837 + 1412 = → T	5650 + 3245 = → A	899 + 1373 = → Q
1043 + 1733 = → Y	1748 + 880 = → F	3484 + 1659 = → H
2083 + 1383 = → P	4134 + 3203 = → S	3667 + 3916 = → R
2438 + 1928 = → O	5863 + 3649 = → U	5412 + 3011 = → I
2983 + 5294 = → M	1523 + 863 = → E	1161 + 1527 = → K

Scratch space:

CLUE 4

Subtraction

The Meowseum kitchen is missing some delicious tuna cans. If we subtract the remaining cans from the starting stack, we can see how much food the thief took.

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

W												
7665	6387	5652	1361	6423	7644	7485	3035	4687	4090	2877	3035	1361

					W											
5198	4687	5759	3035	8968	7665	1361	8864	6543	5652	6423	8864	1361	7644	5759	8968	6387

8864	6423	5692

$10732 - 3067 = \square \rightarrow \boxed{W}$

$1847 - 486 = \square \rightarrow \boxed{O}$

$13144 - 4280 = \square \rightarrow \boxed{R}$

$6667 - 1469 = \square \rightarrow \boxed{P}$

$12440 - 3472 = \square \rightarrow \boxed{H}$

$7474 - 3384 = \square \rightarrow \boxed{L}$

$8707 - 2164 = \square \rightarrow \boxed{K}$

$7647 - 1224 = \square \rightarrow \boxed{U}$

$7093 - 4058 = \square \rightarrow \boxed{C}$

$7877 - 2118 = \square \rightarrow \boxed{T}$

$6508 - 1821 = \square \rightarrow \boxed{A}$

$11346 - 4959 = \square \rightarrow \boxed{E}$

$5917 - 225 = \square \rightarrow \boxed{G}$

$4882 - 2005 = \square \rightarrow \boxed{I}$

$7533 - 48 = \square \rightarrow \boxed{D}$

$6486 - 834 = \square \rightarrow \boxed{F}$

$7744 - 100 = \square \rightarrow \boxed{N}$

Scratch space:

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

The patrol kittens need to share the backyard search grid equally. Division will tell us how many blocks each kitten has to sniff out.

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:

$4 \div 1 = \boxed{}$

$132 \div 12 = \boxed{}$

$12 \div 1 = \boxed{}$

$88 \div 11 = \boxed{}$

$80 \div 8 = \boxed{}$

$10 \div 2 = \boxed{}$

$72 \div 12 = \boxed{}$

$2 \div 2 = \boxed{}$

$30 \div 10 = \boxed{}$

$14 \div 7 = \boxed{}$

$45 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain leaped over the security lasers, then hypnotized the night watchman with a soft purr.
2. The villain leaped over the security lasers, then faded completely into the deep hallway shadows.
3. The villain scaled the high brick wall of the gallery, then slipped inside an empty cardboard delivery box.
4. The villain padded silently past the sleeping guards, then fooled the guard dog with a squeaky toy sound.
5. The villain dodged the moving red laser beams, then slipped inside an empty cardboard delivery box.
6. The villain dodged the moving red laser beams, then swiftly untangled the velvet ropes.
7. The villain padded silently past the sleeping guards, then faded completely into the deep hallway shadows.
8. The villain spotted the trophy in pitch black darkness, then fooled the guard dog with a squeaky toy sound.
9. The villain spotted the trophy in pitch black darkness, then faded completely into the deep hallway shadows.
10. The villain padded silently past the sleeping guards, then swiftly untangled the velvet ropes.
11. The villain dodged the moving red laser beams, then fooled the guard dog with a squeaky toy sound.
12. The villain padded silently past the sleeping guards, then hypnotized the night watchman with a soft purr.

Answer Key

The Great Catnip Trophy Caper

Culprit: Tom

Silent Stalking · Shadow Melting · Left-pawed · Calico Patchwork Fur · Squeaky Mouse Toy

Trail: Start 21 → Clue 1 16 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE CAT BURGLAR CANNOT USE BOX HIDING"

Round 3,731 to the nearest hundred = 3700 (T) · Round 168 to the nearest ten = 170 (B) · Round 660 to the nearest hundred = 700 (N) · Round 128 to the nearest ten = 130 (S) · Round 9,018 to the nearest thousand = 9000 (A) · Round 6,993 to the nearest thousand = 7000 (C) · Round 4,252 to the nearest hundred = 4300 (L) · Round 48 to the nearest ten = 50 (O) · Round 231 to the nearest ten = 230 (X) · Round 1,711 to the nearest hundred = 1700 (I) · Round 297 to the nearest hundred = 300 (R) · Round 106 to the nearest ten = 110 (G) · Round 1,281 to the nearest hundred = 1300 (D) · Round 71 to the nearest ten = 70 (U) · Round 924 to the nearest hundred = 900 (H) · Round 431 to the nearest ten = 430 (E)

Clue 2 (Word problems): "LEFT PAWED"

Patrol kitten found 25 toy mice yesterday and 30 more today. How many toy mice in all? = 55 (L) · There were 84 yarn balls. 9 were used up. How many yarn balls are left? = 75 (F) · Patrol kitten lined up 2 rows of 8 yarn balls. How many yarn balls in all? = 16 (A) · Patrol kitten lined up 11 rows of 6 tuna cans. How many tuna cans in all? = 66 (T) · There were 49 toy mice. 15 were used up. How many toy mice are left? = 34 (W) · Patrol kitten lined up 4 rows of 9 catnip treats. How many catnip treats in all? = 36 (E) · Patrol kitten found 44 yarn balls yesterday and 10 more today. How many yarn balls in all? = 54 (P)

Clue 3 (Addition): "THE THIEF STOPS FOR A SQUEAKY MOUSE TOY"

$837 + 1412 = 2249$ (T) · $5650 + 3245 = 8895$ (A) · $899 + 1373 = 2272$ (Q) · $1043 + 1733 = 2776$ (Y) · $1748 + 880 = 2628$ (F) · $3484 + 1659 = 5143$ (H) · $2083 + 1383 = 3466$ (P) · $4134 + 3203 = 7337$ (S) · $3667 + 3916 = 7583$ (R) · $2438 + 1928 = 4366$ (O) · $5863 + 3649 = 9512$ (U) · $5412 + 3011 = 8423$ (I) · $2983 + 5294 = 8277$ (M) · $1523 + 863 = 2386$ (E) · $1161 + 1527 = 2688$ (K)

Clue 4 (Subtraction): "WE FOUND CALICO PATCHWORK FUR ON THE RUG"

$10732 - 3067 = 7665$ (W) · $1847 - 486 = 1361$ (O) · $13144 - 4280 = 8864$ (R) · $6667 - 1469 = 5198$ (P) · $12440 - 3472 = 8968$ (H) · $7474 - 3384 = 4090$ (L) · $8707 - 2164 = 6543$ (K) · $7647 - 1224 = 6423$ (U) · $7093 - 4058 = 3035$ (C) · $7877 - 2118 = 5759$ (T) · $6508 - 1821 = 4687$ (A) · $11346 - 4959 = 6387$ (E) · $5917 - 225 = 5692$ (G) · $4882 - 2005 = 2877$ (I) · $7533 - 48 = 7485$ (D) · $6486 - 834 = 5652$ (F) · $7744 - 100 = 7644$ (N)

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

$4 \div 1 = 4$ · $132 \div 12 = 11$ · $12 \div 1 = 12$ · $88 \div 11 = 8$ · $80 \div 8 = 10$ · $10 \div 2 = 5$ · $72 \div 12 = 6$ · $2 \div 2 = 1$ · $30 \div 10 = 3$ · $14 \div 7 = 2$ · $45 \div 5 = 9$