



The Great Catnip Caper

Grade 4 math · Place value, Rounding, Addition, Subtraction, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone snuck into the Whiskerville Vault and snatched the legendary Golden Tuna Trophy! Clues were left behind across the playrooms, and it is up to the detectives to unmask the guilty feline.

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	SPECIAL SKILL	DOMINANT PAW	FUR PATTERN	BIGGEST FEAR
Oliver	Laser Pointer	Wall Pouncing	Left Pawed	Calico Orange	Loud Vacuum
Ursula	Laser Pointer	Wall Pouncing	Right Pawed	Tabby Stripe	Spray Bottle
Xena	Yarn Ball	Wall Pouncing	Right Pawed	Sleek Black	Squeaky Toy
Quincy	Laser Pointer	Curtain Climbing	Left Pawed	Calico Orange	Spray Bottle
Gizmo	Laser Pointer	Box Hiding	Right Pawed	Sleek Black	Spray Bottle
Luna	Feather Wand	Silent Pawwalking	Right Pawed	Sleek Black	Spray Bottle
Vinnie	Laser Pointer	High Jumping	Right Pawed	Sleek Black	Squeaky Toy
Yoshi	Yarn Ball	High Jumping	Right Pawed	Sleek Black	Spray Bottle
Cleopatra	Yarn Ball	Silent Pawwalking	Right Pawed	Tabby Stripe	Spray Bottle
Jasper	Laser Pointer	High Jumping	Right Pawed	Calico Orange	Loud Vacuum
Felix	Feather Wand	Wall Pouncing	Left Pawed	Sleek Black	Spray Bottle
Simba	Feather Wand	Wall Pouncing	Right Pawed	Sleek Black	Spray Bottle
Barnaby	Catnip Mouse	Silent Pawwalking	Right Pawed	Sleek Black	Spray Bottle
Milo	Crinkle Ball	Curtain Climbing	Right Pawed	Calico Orange	Spray Bottle
Hazel	Catnip Mouse	Curtain Climbing	Left Pawed	Tabby Stripe	Squeaky Toy
Ziggy	Catnip Mouse	Wall Pouncing	Left Pawed	Tabby Stripe	Loud Vacuum
Kobe	Feather Wand	Box Hiding	Right Pawed	Sleek Black	Squeaky Toy
Waffles	Feather Wand	Silent Pawwalking	Right Pawed	Tabby Stripe	Loud Vacuum
Duchess	Laser Pointer	Silent Pawwalking	Left Pawed	Tabby Stripe	Squeaky Toy
Toby	Laser Pointer	Wall Pouncing	Left Pawed	Sleek Black	Loud Vacuum
Penelope	Feather Wand	Box Hiding	Right Pawed	Calico Orange	Squeaky Toy

CLUE 1 Place value

Detective Whiskers checks the place values on the vault lock keypad to decode the first lead.

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

T																T
6000	40	70	3000	10	500	500	100	10	800	1000	10	1000	800	200	6000	
40	10	1000	70	10	800	300	10	1000	70	100	5000	200	2000			

What is the value of the 6 in 76,471?

→ T

What is the value of the 2 in 92,186?

→ X

What is the value of the 1 in 155?

→ A

What is the value of the 8 in 803?

→ N

What is the value of the 2 in 9,275?

→ O

What is the value of the 5 in 75,129?

→ B

What is the value of the 4 in 6,748?

→ H

What is the value of the 5 in 4,566?

→ L

What is the value of the 3 in 6,399?

→ S

What is the value of the 3 in 53,240?

→ V

What is the value of the 1 in 1,975?

→ D

What is the value of the 7 in 371?

→ E

What is the value of the 1 in 218?

→ I

Scratch space:

CLUE 2 Rounding

The digital treat scale rounds the evidence weight to narrow down the suspect list.

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

A							A								A	
7000	70	230	2000	500	110	3700	7000	200	3700	70	230	9000	110	200	7000	2300
							A							A		
1100	90	50	9000	700	9000	130	7000	70	110	500	130	110	70	7000	4300	

Round 7,123 to the nearest thousand → **A**

Round 2,313 to the nearest hundred → **S**

Round 93 to the nearest ten → **O**

Round 229 to the nearest ten → **I**

Round 195 to the nearest hundred → **W**

Round 3,680 to the nearest hundred → **P**

Round 9,041 to the nearest thousand → **N**

Round 1,524 to the nearest thousand → **G**

Round 518 to the nearest hundred → **H**

Round 129 to the nearest ten → **E**

Round 113 to the nearest ten → **T**

Round 1,079 to the nearest hundred → **F**

Round 53 to the nearest ten → **U**

Round 67 to the nearest ten → **R**

Round 679 to the nearest hundred → **D**

Round 4,257 to the nearest hundred → **Y**

Scratch space:

CLUE 3 Addition

Adding up the claw marks found across three rooms reveals an unexpected clue.

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

T																	
2160	8216	8234	5463	2525	7892	9368	6887	4504	7892	7892	4504	2962	4504	3970	4504	2167	
												T	T				
4486	7892	8883	3954	4504	9047	2458	7892	4504	2167	5463	8883	2160	2160	6887	8234		

1308 + 852 = → T	2324 + 4563 = → L	2716 + 1788 = → A
3896 + 5472 = → G	1502 + 665 = → Y	2726 + 1228 = → M
2345 + 2141 = → F	3904 + 3988 = → R	1753 + 3710 = → B
806 + 1652 = → P	1013 + 1512 = → U	1019 + 1943 = → N
5103 + 3780 = → O	4181 + 4053 = → E	4221 + 3995 = → H
1552 + 2418 = → W	2793 + 6254 = → S	

Scratch space:

CLUE 4

Subtraction

Subtracting the missing fish biscuits from the inventory count unlocks a secret note.

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

B																	
5286	1164	6519	2231	5887	3145	3964	8343	1086	6519	4859	4859	5895	6519	6451	6451	6699	3819

7107	5895	8688	3692	6699	3819	7107	7107	8343	1164	6519	8688	2231	3692

$5517 - 231 = \square \rightarrow \boxed{\text{B}}$

$6792 - 1933 = \square \rightarrow \boxed{\text{S}}$

$9539 - 851 = \square \rightarrow \boxed{\text{T}}$

$9063 - 720 = \square \rightarrow \boxed{\text{R}}$

$7476 - 777 = \square \rightarrow \boxed{\text{E}}$

$2479 - 1315 = \square \rightarrow \boxed{\text{L}}$

$3758 - 66 = \square \rightarrow \boxed{\text{H}}$

$7109 - 3290 = \square \rightarrow \boxed{\text{D}}$

$11300 - 4193 = \square \rightarrow \boxed{\text{O}}$

$4317 - 2086 = \square \rightarrow \boxed{\text{C}}$

$9000 - 3113 = \square \rightarrow \boxed{\text{K}}$

$8661 - 2766 = \square \rightarrow \boxed{\text{N}}$

$10997 - 4478 = \square \rightarrow \boxed{\text{A}}$

$7593 - 3629 = \square \rightarrow \boxed{\text{U}}$

$1961 - 875 = \square \rightarrow \boxed{\text{W}}$

$9234 - 2783 = \square \rightarrow \boxed{\text{G}}$

$4209 - 1064 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

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

Dividing the remaining kibble pieces equally among the feeding bowls reveals the final evidence.

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:

$1 \div 1 = \boxed{}$

$36 \div 12 = \boxed{}$

$77 \div 11 = \boxed{}$

$22 \div 2 = \boxed{}$

$12 \div 2 = \boxed{}$

$24 \div 3 = \boxed{}$

$110 \div 11 = \boxed{}$

$35 \div 7 = \boxed{}$

$6 \div 3 = \boxed{}$

$72 \div 6 = \boxed{}$

$18 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swapped the prize ribbon for a fake feather, then sneaked past guards with silent paw steps.
2. The villain tangled the security camera with a yarn ball, then pounced off the high wall to escape.
3. The villain knocked a bowl of golden kibble off the counter, then sneaked past guards with silent paw steps.
4. The villain swapped the prize ribbon for a fake feather, then pounced off the high wall to escape.
5. The villain knocked a bowl of golden kibble off the counter, then pounced off the high wall to escape.
6. The villain tangled the security camera with a yarn ball, then stuffed the stolen loot inside a cardboard box.
7. The villain swiped the golden tuna statue from the display, then leaped clear over the tall security gate.
8. The villain swapped the prize ribbon for a fake feather, then scrambled up the heavy velvet curtains.
9. The villain swiped the golden tuna statue from the display, then sneaked past guards with silent paw steps.
10. The villain chased the red laser dot into the vault, then pounced off the high wall to escape.
11. The villain swapped the prize ribbon for a fake feather, then leaped clear over the tall security gate.
12. The villain tangled the security camera with a yarn ball, then leaped clear over the tall security gate.

Answer Key

The Great Catnip Caper

Culprit: Simba

Feather Wand · Wall Pouncing · Right Pawed · Sleek Black · Spray Bottle

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DID NOT HIDE INSIDE A BOX"

What is the value of the 6 in 76,471? = 6000 (T) · What is the value of the 2 in 92,186? = 2000 (X) · What is the value of the 1 in 155? = 100 (A) · What is the value of the 8 in 803? = 800 (N) · What is the value of the 2 in 9,275? = 200 (O) · What is the value of the 5 in 75,129? = 5000 (B) · What is the value of the 4 in 6,748? = 40 (H) · What is the value of the 5 in 4,566? = 500 (L) · What is the value of the 3 in 6,399? = 300 (S) · What is the value of the 3 in 53,240? = 3000 (V) · What is the value of the 1 in 1,975? = 1000 (D) · What is the value of the 7 in 371? = 70 (E) · What is the value of the 1 in 218? = 10 (I)

Clue 2 (Rounding): "A RIGHT PAW PRINT WAS FOUND NEAR THE TRAY"

Round 7,123 to the nearest thousand = 7000 (A) · Round 2,313 to the nearest hundred = 2300 (S) · Round 93 to the nearest ten = 90 (O) · Round 229 to the nearest ten = 230 (I) · Round 195 to the nearest hundred = 200 (W) · Round 3,680 to the nearest hundred = 3700 (P) · Round 9,041 to the nearest thousand = 9000 (N) · Round 1,524 to the nearest thousand = 2000 (G) · Round 518 to the nearest hundred = 500 (H) · Round 129 to the nearest ten = 130 (E) · Round 113 to the nearest ten = 110 (T) · Round 1,079 to the nearest hundred = 1100 (F) · Round 53 to the nearest ten = 50 (U) · Round 67 to the nearest ten = 70 (R) · Round 679 to the nearest hundred = 700 (D) · Round 4,257 to the nearest hundred = 4300 (Y)

Clue 3 (Addition): "THE BURGLAR RAN AWAY FROM A SPRAY BOTTLE"

1308 + 852 = 2160 (T) · 2324 + 4563 = 6887 (L) · 2716 + 1788 = 4504 (A) · 3896 + 5472 = 9368 (G) · 1502 + 665 = 2167 (Y) · 2726 + 1228 = 3954 (M) · 2345 + 2141 = 4486 (F) · 3904 + 3988 = 7892 (R) · 1753 + 3710 = 5463 (B) · 806 + 1652 = 2458 (P) · 1013 + 1512 = 2525 (U) · 1019 + 1943 = 2962 (N) · 5103 + 3780 = 8883 (O) · 4181 + 4053 = 8234 (E) · 4221 + 3995 = 8216 (H) · 1552 + 2418 = 3970 (W) · 2793 + 6254 = 9047 (S)

Clue 4 (Subtraction): "BLACK FUR WAS SNAGGED ON THE DOOR LATCH"

5517 - 231 = 5286 (B) · 6792 - 1933 = 4859 (S) · 9539 - 851 = 8688 (T) · 9063 - 720 = 8343 (R) · 7476 - 777 = 6699 (E) · 2479 - 1315 = 1164 (L) · 3758 - 66 = 3692 (H) · 7109 - 3290 = 3819 (D) · 11300 - 4193 = 7107 (O) · 4317 - 2086 = 2231 (C) · 9000 - 3113 = 5887 (K) · 8661 - 2766 = 5895 (N) · 10997 - 4478 = 6519 (A) · 7593 - 3629 = 3964 (U) · 1961 - 875 = 1086 (W) · 9234 - 2783 = 6451 (G) · 4209 - 1064 = 3145 (F)

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

1 ÷ 1 = 1 · 36 ÷ 12 = 3 · 77 ÷ 11 = 7 · 22 ÷ 2 = 11 · 12 ÷ 2 = 6 · 24 ÷ 3 = 8 · 110 ÷ 11 = 10 · 35 ÷ 7 = 5 · 6 ÷ 3 = 2 · 72 ÷ 6 = 12 · 18 ÷ 2 = 9