



The Great Catnip Caper

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

Detective: _____ Date: _____

Oh no! Someone sneaked into the pantry and swiped the golden fish treats. The Grand Meow League needs you to track down the mischievous feline culprit.

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 rogue kitty 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	SECRET SKILL	TAIL TIP	FUR PATTERN	SILLY FEAR
Duchess	Yarn Ball	Sneaky Crawling	White Tail Tip	Orange Tabby	Vacuum Cleaner
Socks	Squeaky Mouse	High Pouncing	White Tail Tip	Sleek Black	Vacuum Cleaner
Smokey	Crinkle Ball	Sneaky Crawling	White Tail Tip	Sleek Black	Vacuum Cleaner
Sylvester	Cardboard Box	Super Purring	White Tail Tip	Orange Tabby	Vacuum Cleaner
Ziggy	Crinkle Ball	High Pouncing	White Tail Tip	Sleek Black	Vacuum Cleaner
Luna	Crinkle Ball	Speed Grooming	Black Tail Tip	Orange Tabby	Vacuum Cleaner
Chloe	Feather Wand	Super Purring	Black Tail Tip	Orange Tabby	Vacuum Cleaner
Nala	Feather Wand	Sneaky Crawling	Black Tail Tip	Orange Tabby	Spray Bottle
Oliver	Yarn Ball	Wall Climbing	White Tail Tip	Sleek Black	Vacuum Cleaner
Tom	Cardboard Box	Speed Grooming	White Tail Tip	Sleek Black	Vacuum Cleaner
Figaro	Squeaky Mouse	Sneaky Crawling	White Tail Tip	Orange Tabby	Rustling Bag
Shadow	Squeaky Mouse	Sneaky Crawling	Black Tail Tip	Sleek Black	Spray Bottle
Milo	Yarn Ball	Sneaky Crawling	White Tail Tip	Sleek Black	Rustling Bag
Boots	Feather Wand	Speed Grooming	Black Tail Tip	Sleek Black	Rustling Bag
Garfield	Cardboard Box	Speed Grooming	White Tail Tip	Orange Tabby	Spray Bottle
Mittens	Yarn Ball	Super Purring	White Tail Tip	Calico Patch	Vacuum Cleaner
Rusty	Crinkle Ball	Sneaky Crawling	Black Tail Tip	Sleek Black	Vacuum Cleaner
Cleo	Squeaky Mouse	High Pouncing	White Tail Tip	Sleek Black	Rustling Bag
Simba	Squeaky Mouse	Super Purring	White Tail Tip	Orange Tabby	Spray Bottle
Bella	Cardboard Box	Wall Climbing	Black Tail Tip	Sleek Black	Vacuum Cleaner
Felix	Feather Wand	Super Purring	Black Tail Tip	Orange Tabby	Spray Bottle

CLUE 1

We found the snack drawer open. Let us count the cans of tuna to see what is missing. Add these boxes to find the clue.

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

842 816 607 967 709 967 936 607 234 842 950 390 607 967 970 390 842

234 335 484 360 373 294 624 335 335 967

$$381 + 461 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$394 + 213 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$312 + 172 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$634 + 333 = \boxed{} \rightarrow \boxed{\text{S}}$$

$155 + 139 = \boxed{} \rightarrow \boxed{\text{W}}$

$89 + 145 = \boxed{} \rightarrow \boxed{\text{C}}$

$189 + 435 = \boxed{} \rightarrow \boxed{\text{A}}$

$$488 + 328 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$519 + 431 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$241 + 149 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$114 + 259 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$235 + 100 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$434 + 502 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$465 + 244 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$136 + 224 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$468 + 502 = \boxed{} \rightarrow \boxed{\text{N}}$$

Scratch space:

CLUE 2

Some toy mice are missing from the toy box. We started with a full pile but now some are gone. Subtract to see what is left.

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

Diagram illustrating the sequence of numbers and the placement of 'T' markers across two rows of boxes.

Row 1 (Top):

- Box 1: 504 (T)
- Box 2: 432
- Box 3: 610
- Box 4: 674
- Box 5: 820
- Box 6: 610
- Box 7: 560
- Box 8: 610
- Box 9: 432
- Box 10: 670
- Box 11: 552
- Box 12: 378
- Box 13: 432
- Box 14: 217
- Box 15: 504 (T)
- Box 16: 610
- Box 17: 867
- Box 18: 615
- Box 19: 279

Row 2 (Bottom):

- Box 1: 867
- Box 2: 279
- Box 3: 381
- Box 4: 135
- Box 5: 670
- Box 6: 504 (T)
- Box 7: 670
- Box 8: 217
- Box 9: 853
- Box 10: 504 (T)
- Box 11: 217
- Box 12: 533

853 - 349 = → **T**

$$373 - 94 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$465 - 248 = \boxed{} \rightarrow \boxed{\text{I}}$$

$610 - 178 = \boxed{} \rightarrow \boxed{\text{H}}$

$$547 - 169 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$981 - 311 = \boxed{} \rightarrow \boxed{\text{A}}$$

1038 - 364 = → **S**

$$777 - 225 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$857 - 324 = \boxed{} \rightarrow \boxed{\text{P}}$$

$923 - 103 = \boxed{} \rightarrow \boxed{\text{C}}$

$$854 - 239 = \boxed{} \rightarrow \boxed{\text{U}}$$

$240 - 105 = \boxed{} \rightarrow \boxed{\text{M}}$

$$624 - 14 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$483 - 102 = \boxed{} \rightarrow \boxed{\text{O}}$$

$904 - 51 = \boxed{} \rightarrow \boxed{\text{L}}$

$$642 - 82 = \boxed{} \rightarrow \boxed{\text{N}}$$

$1199 - 332 = \boxed{} \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 3 Rounding

A laser pointer left a glowing trail on the wall. The camera scanner only reads estimated numbers. Round the distance to reveal the trail.

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

T																
4000	60	300	70	700	3000	3000	800	700	2000	40	800	2000	800	8000	800	400

30	40	50	80	800	70	800	20	90	90	80	60	90	80			

Round 4,470 to the nearest thousand → **T**

Round 69 to the nearest ten → **V**

Round 698 to the nearest hundred → **I**

Round 94 to the nearest ten → **U**

Round 364 to the nearest hundred → **Y**

Round 79 to the nearest ten → **M**

Round 23 to the nearest ten → **C**

Round 30 to the nearest ten → **F**

Round 8,084 to the nearest thousand → **W**

Round 3,377 to the nearest thousand → **L**

Round 809 to the nearest hundred → **A**

Round 57 to the nearest ten → **H**

Round 283 to the nearest hundred → **E**

Round 53 to the nearest ten → **O**

Round 41 to the nearest ten → **R**

Round 2,053 to the nearest thousand → **N**

Scratch space:

CLUE 4
Multiplication facts (1-12)

Look at the scratch marks on the scratching post. They are in even rows. Multiply the rows of marks to read the clue.

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

B																			
63	9	64	22	12	88	54	90	81	14	90	64	84	80	81	110	77	90	77	
9	77	88	14	1	84	14	11	77	90	54	108								

$7 \times 9 = \square \rightarrow \text{B}$

$1 \times 1 = \square \rightarrow \text{O}$

$9 \times 9 = \square \rightarrow \text{S}$

$6 \times 2 = \square \rightarrow \text{K}$

$6 \times 9 = \square \rightarrow \text{U}$

$1 \times 11 = \square \rightarrow \text{H}$

$2 \times 7 = \square \rightarrow \text{T}$

$8 \times 11 = \square \rightarrow \text{F}$

$11 \times 7 = \square \rightarrow \text{E}$

$12 \times 9 = \square \rightarrow \text{G}$

$11 \times 10 = \square \rightarrow \text{W}$

$10 \times 8 = \square \rightarrow \text{D}$

$7 \times 12 = \square \rightarrow \text{N}$

$11 \times 2 = \square \rightarrow \text{C}$

$8 \times 8 = \square \rightarrow \text{A}$

$9 \times 1 = \square \rightarrow \text{L}$

$9 \times 10 = \square \rightarrow \text{R}$

Scratch space:

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

We need to share these cat treats equally among our helper puppies. Divide the treats to get 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:

$18 \div 3 = \boxed{}$

$70 \div 7 = \boxed{}$

$14 \div 2 = \boxed{}$

$25 \div 5 = \boxed{}$

$80 \div 10 = \boxed{}$

$24 \div 12 = \boxed{}$

$15 \div 5 = \boxed{}$

$40 \div 10 = \boxed{}$

$72 \div 8 = \boxed{}$

$24 \div 2 = \boxed{}$

$9 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings a feather wand, then jumps over the high baby gate.
2. The villain swings a feather wand, then scurries up the tall bookshelf.
3. The villain swings a feather wand, then creates a rumbling super purr.
4. The villain rolls a massive yarn ball, then jumps over the high baby gate.
5. The villain swings a feather wand, then grooms their paws at lightning speed.
6. The villain tosses a shiny crinkle ball, then jumps over the high baby gate.
7. The villain pounces with a squeaky mouse, then jumps over the high baby gate.
8. The villain pounces with a squeaky mouse, then creates a rumbling super purr.
9. The villain slides inside a cardboard box, then crawls under the low couch.
10. The villain slides inside a cardboard box, then grooms their paws at lightning speed.
11. The villain tosses a shiny crinkle ball, then crawls under the low couch.
12. The villain rolls a massive yarn ball, then scurries up the tall bookshelf.

Answer Key

The Great Catnip Caper

Culprit: Smokey

Crinkle Ball · Sneaky Crawling · White Tail Tip · Sleek Black · Vacuum Cleaner

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT CLIMB WALLS"

$381 + 461 = 842$ (T) · $394 + 213 = 607$ (E) · $312 + 172 = 484$ (I) · $634 + 333 = 967$ (S) · $155 + 139 = 294$ (W) · $89 + 145 = 234$ (C) · $189 + 435 = 624$ (A) · $488 + 328 = 816$ (H) · $519 + 431 = 950$ (D) · $241 + 149 = 390$ (O) · $114 + 259 = 373$ (B) · $235 + 100 = 335$ (L) · $434 + 502 = 936$ (P) · $465 + 244 = 709$ (U) · $136 + 224 = 360$ (M) · $468 + 502 = 970$ (N)

Clue 2 (Subtraction): "THE SCENE HAD WHITE FUR FROM A TAIL TIP"

$853 - 349 = 504$ (T) · $373 - 94 = 279$ (R) · $465 - 248 = 217$ (I) · $610 - 178 = 432$ (H) · $547 - 169 = 378$ (W) · $981 - 311 = 670$ (A) · $1038 - 364 = 674$ (S) · $777 - 225 = 552$ (D) · $857 - 324 = 533$ (P) · $923 - 103 = 820$ (C) · $854 - 239 = 615$ (U) · $240 - 105 = 135$ (M) · $624 - 14 = 610$ (E) · $483 - 102 = 381$ (O) · $904 - 51 = 853$ (L) · $642 - 82 = 560$ (N) · $1199 - 332 = 867$ (F)

Clue 3 (Rounding): "THE VILLAIN RAN AWAY FROM A VACUUM HUM"

Round 4,470 to the nearest thousand = 4000 (T) · Round 69 to the nearest ten = 70 (V) · Round 698 to the nearest hundred = 700 (I) · Round 94 to the nearest ten = 90 (U) · Round 364 to the nearest hundred = 400 (Y) · Round 79 to the nearest ten = 80 (M) · Round 23 to the nearest ten = 20 (C) · Round 30 to the nearest ten = 30 (F) · Round 8,084 to the nearest thousand = 8000 (W) · Round 3,377 to the nearest thousand = 3000 (L) · Round 809 to the nearest hundred = 800 (A) · Round 57 to the nearest ten = 60 (H) · Round 283 to the nearest hundred = 300 (E) · Round 53 to the nearest ten = 50 (O) · Round 41 to the nearest ten = 40 (R) · Round 2,053 to the nearest thousand = 2000 (N)

Clue 4 (Multiplication facts (1-12)): "BLACK FUR STRANDS WERE LEFT ON THE RUG"

$7 \times 9 = 63$ (B) · $1 \times 1 = 1$ (O) · $9 \times 9 = 81$ (S) · $6 \times 2 = 12$ (K) · $6 \times 9 = 54$ (U) · $1 \times 11 = 11$ (H) · $2 \times 7 = 14$ (T) · $8 \times 11 = 88$ (F) · $11 \times 7 = 77$ (E) · $12 \times 9 = 108$ (G) · $11 \times 10 = 110$ (W) · $10 \times 8 = 80$ (D) · $7 \times 12 = 84$ (N) · $11 \times 2 = 22$ (C) · $8 \times 8 = 64$ (A) · $9 \times 1 = 9$ (L) · $9 \times 10 = 90$ (R)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Smokey

$18 \div 3 = 6$ · $70 \div 7 = 10$ · $14 \div 2 = 7$ · $25 \div 5 = 5$ · $80 \div 10 = 8$ · $24 \div 12 = 2$ · $15 \div 5 = 3$ · $40 \div 10 = 4$ · $72 \div 8 = 9$ · $24 \div 2 = 12$ · $9 \div 9 = 1$