The Great Catnip Caper

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

Detective: _____ **Date:** _____

The Golden Catnip has been swiped from the Purrfield Cafe! The sneaky Cat Burglar left pawprints all over the climbing trees. It is up to you to crack the codes, check the clues, and find the naughty kitty who did it.

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

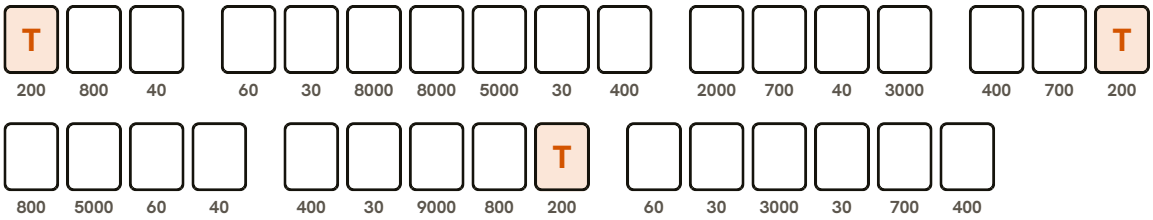
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	FAVORITE TOY	SUPER SKILL	SOCKS TRAIT	FUR COLOR	DISTRACTION
Cleo	Squeaky Mouse	Cardboard Box Hiding	No White Socks	Calico Patches	Warm Sunny Spots
Socks	Yarn Ball Launcher	Cardboard Box Hiding	No White Socks	Sleek Black Fur	Shiny Foil Balls
Luna	Laser Pointer	Wall Climbing	No White Socks	Sleek Black Fur	Warm Sunny Spots
Smokey	Squeaky Mouse	Wall Climbing	No White Socks	Sleek Black Fur	Crinkly Paper Bags
Lucky	Feather Wand	Super Leaping	No White Socks	Sleek Black Fur	Warm Sunny Spots
Boots	Catnip Mist	Wall Climbing	No White Socks	Sleek Black Fur	Warm Sunny Spots
Coco	Yarn Ball Launcher	Night Vision	No White Socks	Sleek Black Fur	Warm Sunny Spots
Gizmo	Feather Wand	Wall Climbing	No White Socks	Sleek Black Fur	Shiny Foil Balls
Simba	Squeaky Mouse	Cardboard Box Hiding	Wears White Socks	Orange Tabby Stripes	Crinkly Paper Bags
Oliver	Catnip Mist	Night Vision	No White Socks	Calico Patches	Shiny Foil Balls
Milo	Yarn Ball Launcher	Silent Purring	No White Socks	Sleek Black Fur	Warm Sunny Spots
Tigger	Yarn Ball Launcher	Night Vision	No White Socks	Calico Patches	Crinkly Paper Bags
Buster	Squeaky Mouse	Super Leaping	Wears White Socks	Sleek Black Fur	Crinkly Paper Bags
Chloe	Catnip Mist	Super Leaping	Wears White Socks	Sleek Black Fur	Warm Sunny Spots
Shadow	Catnip Mist	Cardboard Box Hiding	Wears White Socks	Sleek Black Fur	Warm Sunny Spots
Felix	Laser Pointer	Super Leaping	Wears White Socks	Sleek Black Fur	Crinkly Paper Bags
Garfield	Feather Wand	Wall Climbing	Wears White Socks	Calico Patches	Warm Sunny Spots
Sylvester	Catnip Mist	Super Leaping	No White Socks	Orange Tabby Stripes	Warm Sunny Spots
Oscar	Yarn Ball Launcher	Cardboard Box Hiding	No White Socks	Calico Patches	Shiny Foil Balls
Mittens	Feather Wand	Super Leaping	Wears White Socks	Orange Tabby Stripes	Shiny Foil Balls
Bella	Squeaky Mouse	Cardboard Box Hiding	No White Socks	Orange Tabby Stripes	Warm Sunny Spots

CLUE 1 Rounding

> The yarn ball counter was knocked over. The machine only shows a rounded number of yards. Round this number to find the first clue.

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



Round 190 to the nearest hundred ☐ → T

Round 5,390 to the nearest thousand ☐ → A

Round 652 to the nearest hundred ☐ → O

Round 42 to the nearest ten ☐ → E

Round 28 to the nearest ten ☐ → I

Round 9,067 to the nearest thousand ☐ → G

Round 8,480 to the nearest thousand ☐ → L

Round 828 to the nearest hundred ☐ → H

Round 1,771 to the nearest thousand ☐ → D

Round 397 to the nearest hundred ☐ → N

Round 2,950 to the nearest thousand ☐ → S

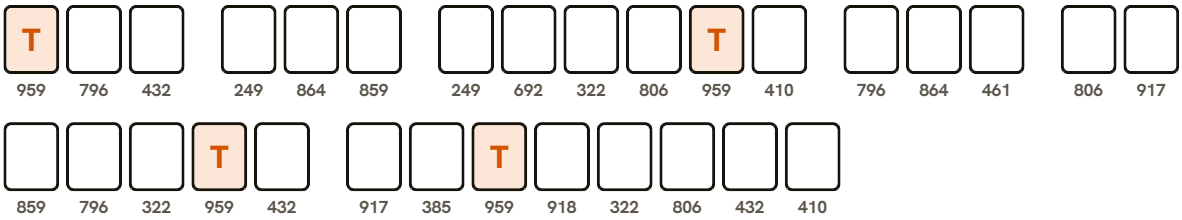
Round 61 to the nearest ten ☐ → V

Scratch space:

CLUE 2 Addition

> We found some dropped toy mice in the play hallway. Let us add up all the mice we found to see where the suspect went.

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



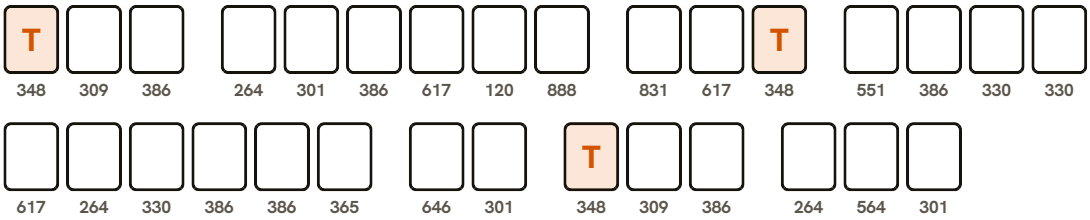
481 + 478 = ☐ → T	141 + 291 = ☐ → E	196 + 214 = ☐ → S
128 + 121 = ☐ → P	474 + 332 = ☐ → N	146 + 239 = ☐ → U
582 + 282 = ☐ → A	138 + 184 = ☐ → I	480 + 316 = ☐ → H
595 + 264 = ☐ → W	281 + 411 = ☐ → R	352 + 566 = ☐ → L
259 + 202 = ☐ → D	432 + 485 = ☐ → O	

Scratch space:

CLUE 3 Subtraction

> The cafe vault started with a big stack of tuna cans. Some were taken. Subtract the missing cans to find the next clue.

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



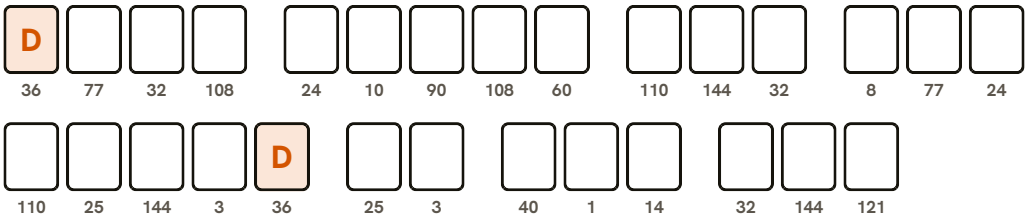
430 - 82 = ☐ → T	565 - 256 = ☐ → H	701 - 315 = ☐ → E
369 - 249 = ☐ → K	627 - 63 = ☐ → U	895 - 64 = ☐ → C
600 - 270 = ☐ → L	331 - 67 = ☐ → S	1229 - 341 = ☐ → Y
649 - 348 = ☐ → N	711 - 346 = ☐ → P	703 - 57 = ☐ → I
943 - 326 = ☐ → A	821 - 270 = ☐ → F	

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Boxes of catnip treats are stacked in even rows on the shelf. Multiply the rows by the columns to count them and get a clue.

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



4 × 9 = ☐ → D	11 × 11 = ☐ → G	12 × 12 = ☐ → U
4 × 6 = ☐ → S	9 × 10 = ☐ → L	10 × 11 = ☐ → F
1 × 1 = ☐ → H	7 × 2 = ☐ → E	4 × 2 = ☐ → W
1 × 3 = ☐ → N		
4 × 8 = ☐ → R	4 × 10 = ☐ → T	2 × 5 = ☐ → I
5 × 5 = ☐ → O		
10 × 6 = ☐ → Y	9 × 12 = ☐ → K	7 × 11 = ☐ → A

Scratch space:

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

> The kittens want to share the milk bowls equally. Divide the bowls among the hungry cats to unlock the final secret.

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:

100 ÷ 10 = ☐	11 ÷ 11 = ☐	44 ÷ 11 = ☐	132 ÷ 12 = ☐	45 ÷ 5 = ☐
42 ÷ 6 = ☐	5 ÷ 1 = ☐	132 ÷ 11 = ☐	21 ÷ 7 = ☐	42 ÷ 7 = ☐
18 ÷ 9 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain waved a fuzzy feather wand, then leaped over the velvet counter.
2. The villain waved a fuzzy feather wand, then scaled up the tall climbing wall.
3. The villain squeaked a toy mouse, then hid inside a cardboard box.
4. The villain fired a yarn ball launcher, then purred softly to blend in.
5. The villain sprayed sweet catnip mist, then purred softly to blend in.
6. The villain shined a red laser pointer, then purred softly to blend in.
7. The villain shined a red laser pointer, then guided the way using night vision.
8. The villain sprayed sweet catnip mist, then scaled up the tall climbing wall.
9. The villain sprayed sweet catnip mist, then leaped over the velvet counter.
10. The villain shined a red laser pointer, then scaled up the tall climbing wall.
11. The villain sprayed sweet catnip mist, then hid inside a cardboard box.
12. The villain squeaked a toy mouse, then scaled up the tall climbing wall.

TEACHER / PARENT

Answer Key

The Great Catnip Caper

Culprit: Boots

Catnip Mist · Wall Climbing · No White Socks · Sleek Black Fur · Warm Sunny Spots

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

Clue 1 (Rounding): "THE VILLAIN DOES NOT HAVE NIGHT VISION"

Round 190 to the nearest hundred = 200 (T) · Round 5,390 to the nearest thousand = 5000 (A) · Round 652 to the nearest hundred = 700 (O) · Round 42 to the nearest ten = 40 (E) · Round 28 to the nearest ten = 30 (I) · Round 9,067 to the nearest thousand = 9000 (G) · Round 8,480 to the nearest thousand = 8000 (L) · Round 828 to the nearest hundred = 800 (H) · Round 1,771 to the nearest thousand = 2000 (D) · Round 397 to the nearest hundred = 400 (N) · Round 2,950 to the nearest thousand = 3000 (S) · Round 61 to the nearest ten = 60 (V)

Clue 2 (Addition): "THE PAW PRINTS HAD NO WHITE OUTLINES"

481 + 478 = 959 (T) · 141 + 291 = 432 (E) · 196 + 214 = 410 (S) · 128 + 121 = 249 (P) · 474 + 332 = 806 (N) · 146 + 239 = 385 (U) · 582 + 282 = 864 (A) · 138 + 184 = 322 (I) · 480 + 316 = 796 (H) · 595 + 264 = 859 (W) · 281 + 411 = 692 (R) · 352 + 566 = 918 (L) · 259 + 202 = 461 (D) · 432 + 485 = 917 (O)

Clue 3 (Subtraction): "THE SNEAKY CAT FELL ASLEEP IN THE SUN"

430 - 82 = 348 (T) · 565 - 256 = 309 (H) · 701 - 315 = 386 (E) · 369 - 249 = 120 (K) · 627 - 63 = 564 (U) · 895 - 64 = 831 (C) · 600 - 270 = 330 (L) · 331 - 67 = 264 (S) · 1229 - 341 = 888 (Y) · 649 - 348 = 301 (N) · 711 - 346 = 365 (P) · 703 - 57 = 646 (I) · 943 - 326 = 617 (A) · 821 - 270 = 551 (F)

Clue 4 (Multiplication facts (1-12)): "DARK SILKY FUR WAS FOUND ON THE RUG"

4 × 9 = 36 (D) · 11 × 11 = 121 (G) · 12 × 12 = 144 (U) · 4 × 6 = 24 (S) · 9 × 10 = 90 (L) · 10 × 11 = 110 (F) · 1 × 1 = 1 (H) · 7 × 2 = 14 (E) · 4 × 2 = 8 (W) · 1 × 3 = 3 (N) · 4 × 8 = 32 (R) · 4 × 10 = 40 (T) · 2 × 5 = 10 (I) · 5 × 5 = 25 (O) · 10 × 6 = 60 (Y) · 9 × 12 = 108 (K) · 7 × 11 = 77 (A)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Boots

100 ÷ 10 = 10 · 11 ÷ 11 = 1 · 44 ÷ 11 = 4 · 132 ÷ 12 = 11 · 45 ÷ 5 = 9 · 42 ÷ 6 = 7 · 5 ÷ 1 = 5 · 132 ÷ 11 = 12 · 21 ÷ 7 = 3 · 42 ÷ 7 = 6 · 18 ÷ 9 = 2