The Great Catnip Heist

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

Detective: _____ **Date:** _____

Someone snuck into Purrville Cat Shelter overnight and emptied the golden catnip vault! Head Caretaker Barnaby found fuzzy clues near the scene. Detective Purrlock must solve the math clues and interview the feline suspects to catch the cat burglar.

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

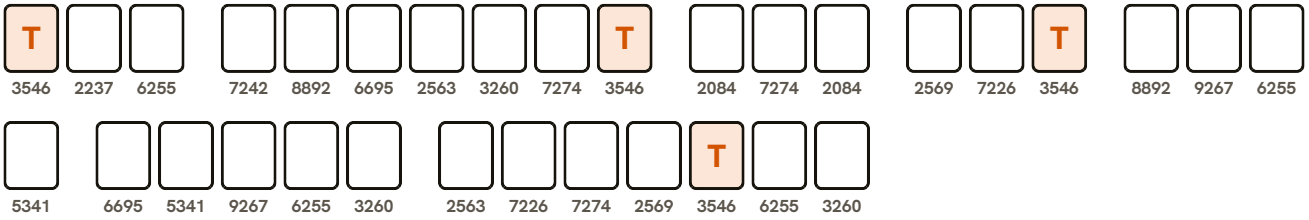
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	CAT TRICK	CAT TOY	DOMINANT PAW	FUR COLOR	DISTRACTION
Penelope	High Pounce	Yarn Ball	Right Pawed	Sleek Black Fur	Warm Sunbeam
Boots	Wall Climb	Feather Wand	Right Pawed	Calico Fur	Crinkly Paper
Duchess	Silent Stalk	Feather Wand	Left Pawed	Calico Fur	Crinkly Paper
Jasper	Silent Stalk	Squeaky Ball	Right Pawed	Calico Fur	Can Of Tuna
Toulouse	Silent Stalk	Catnip Mouse	Right Pawed	Calico Fur	Warm Sunbeam
Socks	Super Zoomies	Squeaky Ball	Left Pawed	Sleek Black Fur	Crinkly Paper
Cleo	Super Zoomies	Laser Pointer	Left Pawed	Calico Fur	Can Of Tuna
Felix	Loud Purr	Squeaky Ball	Left Pawed	Ginger Fur	Crinkly Paper
Figaro	Silent Stalk	Squeaky Ball	Left Pawed	Calico Fur	Warm Sunbeam
Milo	Wall Climb	Yarn Ball	Left Pawed	Calico Fur	Can Of Tuna
Hazel	Loud Purr	Feather Wand	Left Pawed	Calico Fur	Crinkly Paper
Ziggy	High Pounce	Feather Wand	Right Pawed	Calico Fur	Warm Sunbeam
Sylvester	High Pounce	Yarn Ball	Left Pawed	Ginger Fur	Crinkly Paper
Luna	Wall Climb	Laser Pointer	Left Pawed	Ginger Fur	Warm Sunbeam
Tom	Super Zoomies	Yarn Ball	Left Pawed	Ginger Fur	Crinkly Paper
Garfield	Loud Purr	Catnip Mouse	Right Pawed	Calico Fur	Warm Sunbeam
Oliver	Super Zoomies	Yarn Ball	Left Pawed	Calico Fur	Warm Sunbeam
Mitten	Loud Purr	Yarn Ball	Right Pawed	Ginger Fur	Can Of Tuna
Otis	Super Zoomies	Feather Wand	Right Pawed	Calico Fur	Warm Sunbeam
Simba	Super Zoomies	Laser Pointer	Right Pawed	Calico Fur	Warm Sunbeam
Nala	Wall Climb	Yarn Ball	Right Pawed	Ginger Fur	Warm Sunbeam

CLUE 1 Addition

Detective Purrlock added up all the scattered cat treats on the floor to decode the first lead.

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



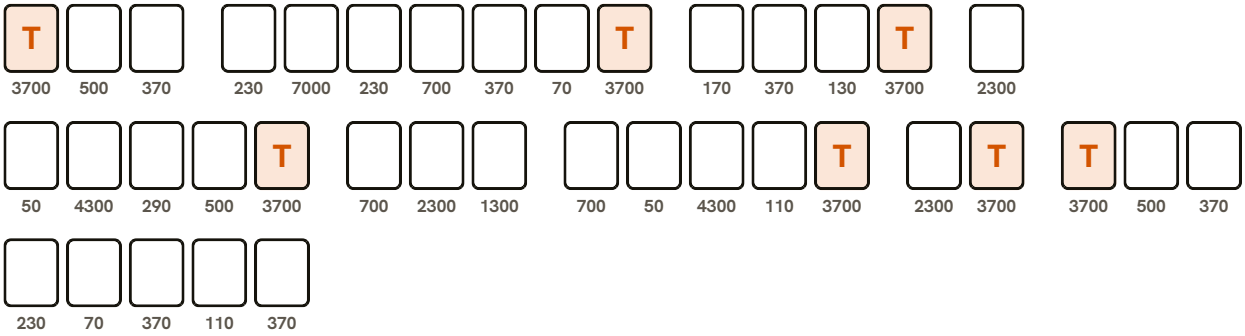
1835 + 1711 = ☐ → T	3774 + 3452 = ☐ → O	1060 + 1509 = ☐ → N
723 + 1361 = ☐ → D	856 + 1707 = ☐ → P	3528 + 3167 = ☐ → L
2119 + 1141 = ☐ → R	3611 + 5281 = ☐ → U	3657 + 5610 = ☐ → S
2499 + 4743 = ☐ → C	3094 + 4180 = ☐ → I	913 + 1324 = ☐ → H
3594 + 2661 = ☐ → E	2408 + 2933 = ☐ → A	

Scratch space:

CLUE 2 Rounding

The digital scale showed the culprit weight but could only round it to the nearest ten grams.

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



Round 3,747 to the nearest hundred ☐ → T

Round 68 to the nearest ten ☐ → C

Round 4,343 to the nearest hundred ☐ → I

Round 370 to the nearest ten ☐ → E

Round 108 to the nearest ten ☐ → N

Round 1,291 to the nearest hundred ☐ → W

Round 294 to the nearest ten ☐ → G

Round 529 to the nearest hundred ☐ → H

Round 6,857 to the nearest thousand ☐ → U

Round 134 to the nearest ten ☐ → F

Round 166 to the nearest ten ☐ → L

Round 686 to the nearest hundred ☐ → P

Round 51 to the nearest ten ☐ → R

Round 2,330 to the nearest hundred ☐ → A

Round 231 to the nearest ten ☐ → S

Scratch space:

CLUE 3 Subtraction

> Subtracting the missing kibble from the full bag gave the exact amount stolen.

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



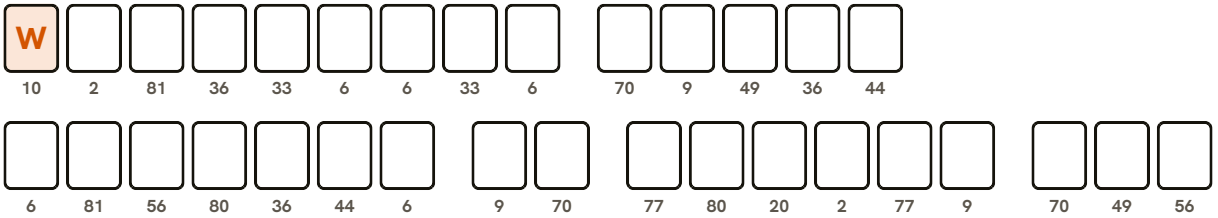
11892 - 4028 = ☐ → T	4741 - 219 = ☐ → U	10114 - 1384 = ☐ → A
9709 - 4588 = ☐ → N	7635 - 1571 = ☐ → S	5569 - 2055 = ☐ → H
5128 - 3896 = ☐ → O	8285 - 1420 = ☐ → M	4858 - 2420 = ☐ → L
5569 - 3126 = ☐ → P	6253 - 3161 = ☐ → D	3256 - 1239 = ☐ → B
5720 - 4252 = ☐ → R	9993 - 1295 = ☐ → Y	7838 - 1290 = ☐ → E
8384 - 4190 = ☐ → W		

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Counting four rows of cozy cat beds with six beds per row revealed a hidden note.

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



10 × 1 = ☐ → W	7 × 7 = ☐ → U	9 × 4 = ☐ → N
4 × 11 = ☐ → D	9 × 9 = ☐ → T	11 × 3 = ☐ → E
1 × 9 = ☐ → O	2 × 10 = ☐ → L	7 × 10 = ☐ → F
1 × 2 = ☐ → I	6 × 1 = ☐ → S	10 × 8 = ☐ → A
11 × 7 = ☐ → C	7 × 8 = ☐ → R	

Scratch space:

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

> Splitting the toy balls evenly into three baskets uncovered 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:

12 ÷ 1 = ☐	72 ÷ 12 = ☐	12 ÷ 6 = ☐	81 ÷ 9 = ☐	80 ÷ 8 = ☐
9 ÷ 3 = ☐	30 ÷ 6 = ☐	88 ÷ 8 = ☐	4 ÷ 4 = ☐	88 ÷ 11 = ☐
63 ÷ 9 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain executed a wall climb, then chased a laser pointer.
2. The villain performed a high pounce, then bathed a feather wand.
3. The villain used a silent stalk, then unraveled a yarn ball.
4. The villain emitted a loud purr, then swiped a catnip mouse.
5. The villain performed a high pounce, then swiped a catnip mouse.
6. The villain started super zoomies, then bathed a feather wand.
7. The villain started super zoomies, then pounced on a squeaky ball.
8. The villain used a silent stalk, then pounced on a squeaky ball.
9. The villain emitted a loud purr, then unraveled a yarn ball.
10. The villain emitted a loud purr, then bathed a feather wand.
11. The villain performed a high pounce, then pounced on a squeaky ball.
12. The villain used a silent stalk, then swiped a catnip mouse.

TEACHER / PARENT

Answer Key

The Great Catnip Heist

Culprit: Garfield

Loud Purr · Catnip Mouse · Right Pawed · Calico Fur · Warm Sunbeam

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE CULPRIT DID NOT USE A LASER POINTER"

1835 + 1711 = 3546 (T) · 3774 + 3452 = 7226 (O) · 1060 + 1509 = 2569 (N) · 723 + 1361 = 2084 (D) · 856 + 1707 = 2563 (P) · 3528 + 3167 = 6695 (L) · 2119 + 1141 = 3260 (R) · 3611 + 5281 = 8892 (U) · 3657 + 5610 = 9267 (S) · 2499 + 4743 = 7242 (C) · 3094 + 4180 = 7274 (I) · 913 + 1324 = 2237 (H) · 3594 + 2661 = 6255 (E) · 2408 + 2933 = 5341 (A)

Clue 2 (Rounding): "THE SUSPECT LEFT A RIGHT PAW PRINT AT THE SCENE"

Round 3,747 to the nearest hundred = 3700 (T) · Round 68 to the nearest ten = 70 (C) · Round 4,343 to the nearest hundred = 4300 (I) · Round 370 to the nearest ten = 370 (E) · Round 108 to the nearest ten = 110 (N) · Round 1,291 to the nearest hundred = 1300 (W) · Round 294 to the nearest ten = 290 (G) · Round 529 to the nearest hundred = 500 (H) · Round 6,857 to the nearest thousand = 7000 (U) · Round 134 to the nearest ten = 130 (F) · Round 166 to the nearest ten = 170 (L) · Round 686 to the nearest hundred = 700 (P) · Round 51 to the nearest ten = 50 (R) · Round 2,330 to the nearest hundred = 2300 (A) · Round 231 to the nearest ten = 230 (S)

Clue 3 (Subtraction): "THE PROWLER WAS STOPPED BY A WARM SUNBEAM"

11892 - 4028 = 7864 (T) · 4741 - 219 = 4522 (U) · 10114 - 1384 = 8730 (A) · 9709 - 4588 = 5121 (N) · 7635 - 1571 = 6064 (S) · 5569 - 2055 = 3514 (H) · 5128 - 3896 = 1232 (O) · 8285 - 1420 = 6865 (M) · 4858 - 2420 = 2438 (L) · 5569 - 3126 = 2443 (P) · 6253 - 3161 = 3092 (D) · 3256 - 1239 = 2017 (B) · 5720 - 4252 = 1468 (R) · 9993 - 1295 = 8698 (Y) · 7838 - 1290 = 6548 (E) · 8384 - 4190 = 4194 (W)

Clue 4 (Multiplication facts (1-12)): "WITNESSES FOUND STRANDS OF CALICO FUR"

10 × 1 = 10 (W) · 7 × 7 = 49 (U) · 9 × 4 = 36 (N) · 4 × 11 = 44 (D) · 9 × 9 = 81 (T) · 11 × 3 = 33 (E) · 1 × 9 = 9 (O) · 2 × 10 = 20 (L) · 7 × 10 = 70 (F) · 1 × 2 = 2 (I) · 6 × 1 = 6 (S) · 10 × 8 = 80 (A) · 11 × 7 = 77 (C) · 7 × 8 = 56 (R)

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

12 ÷ 1 = 12 · 72 ÷ 12 = 6 · 12 ÷ 6 = 2 · 81 ÷ 9 = 9 · 80 ÷ 8 = 10 · 9 ÷ 3 = 3 · 30 ÷ 6 = 5 · 88 ÷ 8 = 11 · 4 ÷ 4 = 1 · 88 ÷ 11 = 8 · 63 ÷ 9 = 7