The Great Catnip Caper

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

Detective: _____ **Date:** _____

Someone snuck into the sanctuary trophy room and swiped the Golden Scratching Post! The detective team must use clue evidence to discover 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 Sneaky Stray is _____

Possible suspects

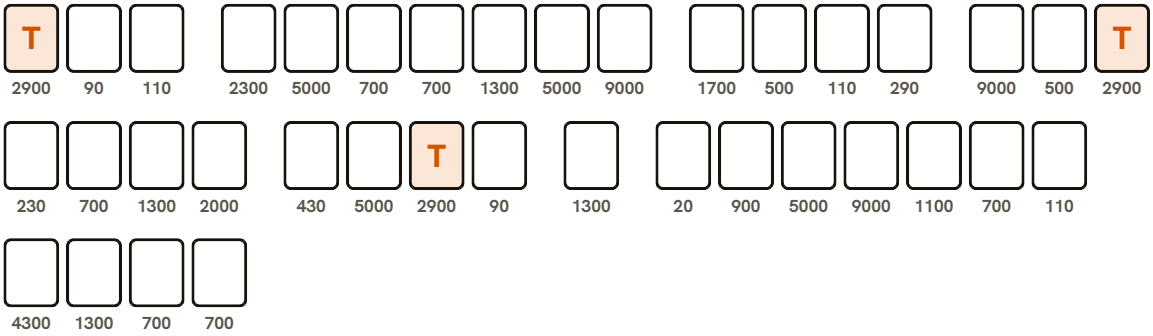
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIAL TRICK	FAVORITE TOY	PAW HABIT	FUR STYLE	DISTRACTION
Mittens	Super Purr	Catnip Mouse	Right Paws	Fluffy Longhair	Tuna Treat
Smokey	Super Purr	Crinkle Ball	Left Paws	Curly Rex	Soft Blanket
Barnaby	Super Purr	Catnip Mouse	Left Paws	Sleek Shorthair	Warm Sunbeam
Oreo	High Pounce	Yarn Ball	Left Paws	Curly Rex	Tuna Treat
Shadow	Laser Chase	Yarn Ball	Left Paws	Sleek Shorthair	Tuna Treat
Duchess	Laser Chase	Crinkle Ball	Right Paws	Fluffy Longhair	Soft Blanket
Tiger	Laser Chase	Catnip Mouse	Right Paws	Fluffy Longhair	Tuna Treat
Penelope	Wall Dash	Yarn Ball	Right Paws	Sleek Shorthair	Tuna Treat
Figaro	Laser Chase	Catnip Mouse	Left Paws	Curly Rex	Tuna Treat
Whiskers	Laser Chase	Squeaky Fish	Left Paws	Sleek Shorthair	Tuna Treat
Milo	Super Purr	Crinkle Ball	Left Paws	Curly Rex	Warm Sunbeam
Oliver	Wall Dash	Crinkle Ball	Right Paws	Fluffy Longhair	Soft Blanket
Garfield	High Pounce	Yarn Ball	Right Paws	Fluffy Longhair	Warm Sunbeam
Felix	Silent Sneak	Squeaky Fish	Right Paws	Fluffy Longhair	Soft Blanket
Luna	High Pounce	Yarn Ball	Left Paws	Sleek Shorthair	Tuna Treat
Bella	Laser Chase	Feather Wand	Left Paws	Sleek Shorthair	Tuna Treat
Socks	Silent Sneak	Crinkle Ball	Left Paws	Sleek Shorthair	Tuna Treat
Jasper	High Pounce	Feather Wand	Left Paws	Fluffy Longhair	Tuna Treat
Ziggy	Laser Chase	Yarn Ball	Right Paws	Fluffy Longhair	Soft Blanket
Simba	Laser Chase	Squeaky Fish	Right Paws	Fluffy Longhair	Soft Blanket
Daisy	Laser Chase	Feather Wand	Left Paws	Fluffy Longhair	Tuna Treat

CLUE 1 Rounding

The sanctuary scanner display only shows total footprints rounded to the nearest ten.

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



Round 2,898 to the nearest hundred ☐ → T

Round 293 to the nearest ten ☐ → S

Round 89 to the nearest ten ☐ → H

Round 1,783 to the nearest thousand ☐ → Y

Round 24 to the nearest ten ☐ → C

Round 5,370 to the nearest thousand ☐ → I

Round 113 to the nearest ten ☐ → E

Round 230 to the nearest ten ☐ → P

Round 695 to the nearest hundred ☐ → L

Round 2,273 to the nearest hundred ☐ → V

Round 1,070 to the nearest hundred ☐ → K

Round 884 to the nearest hundred ☐ → R

Round 8,715 to the nearest thousand ☐ → N

Round 4,314 to the nearest hundred ☐ → B

Round 472 to the nearest hundred ☐ → O

Round 1,740 to the nearest hundred ☐ → D

Round 1,276 to the nearest hundred ☐ → A

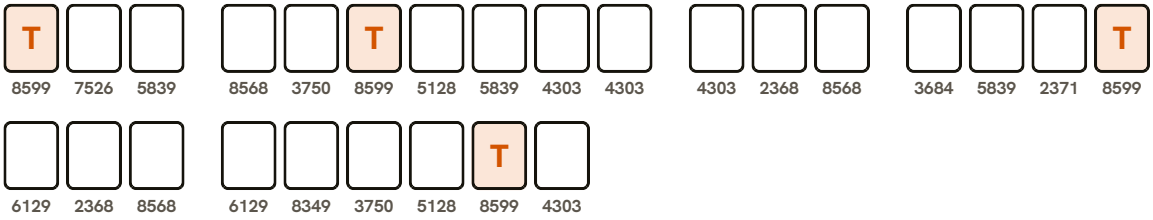
Round 430 to the nearest ten ☐ → W

Scratch space:

CLUE 2 Addition

To tally all the food tins saved in the pantry, we need to add the batches together.

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



5347 + 3252 = ☐ → T

1622 + 2681 = ☐ → S

4023 + 3503 = ☐ → H

2901 + 2938 = ☐ → E

2469 + 3660 = ☐ → P

2398 + 2730 = ☐ → N

1206 + 2478 = ☐ → L

5641 + 2708 = ☐ → R

1425 + 946 = ☐ → F

4951 + 3617 = ☐ → W

757 + 1611 = ☐ → A

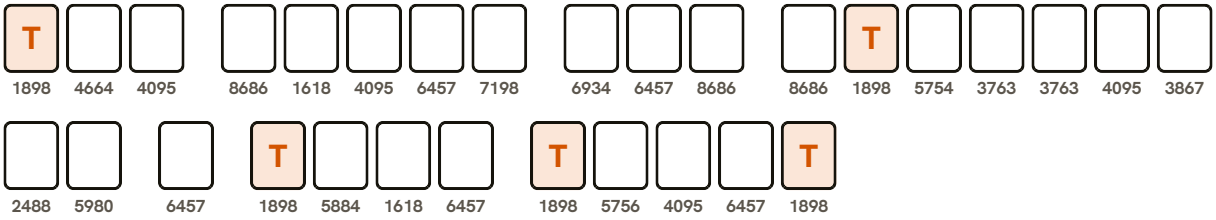
1172 + 2578 = ☐ → I

Scratch space:

CLUE 3 Subtraction

To figure out how many toys are missing from the chest, we calculate the difference.

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



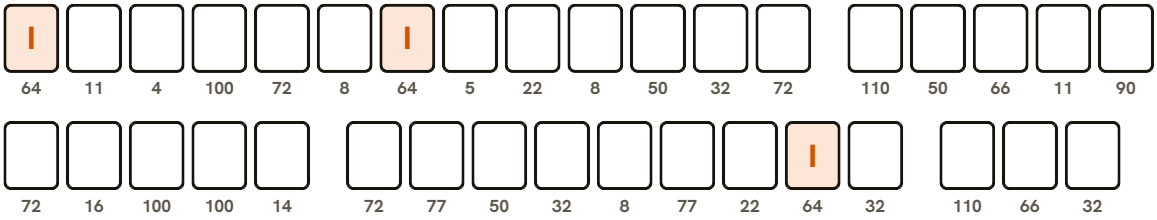
5850 - 3952 = ☐ → T	6103 - 3615 = ☐ → B	5820 - 1725 = ☐ → E
6630 - 876 = ☐ → O	5643 - 4025 = ☐ → N	8928 - 1730 = ☐ → K
8558 - 1624 = ☐ → W	7864 - 4101 = ☐ → P	7894 - 3230 = ☐ → H
8196 - 4329 = ☐ → D	10790 - 4810 = ☐ → Y	6727 - 971 = ☐ → R
9865 - 1179 = ☐ → S	8731 - 2847 = ☐ → U	10647 - 4190 = ☐ → A

Scratch space:

CLUE 4 Multiplication facts (1-12)

The caretakers lined up treats in equal rows and multiplied to find the total count.

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



8 × 8 = ☐ → I

9 × 10 = ☐ → D

5 × 10 = ☐ → O

9 × 8 = ☐ → S

2 × 2 = ☐ → V

4 × 4 = ☐ → L

7 × 11 = ☐ → H

7 × 2 = ☐ → K

11 × 10 = ☐ → F

10 × 10 = ☐ → E

4 × 8 = ☐ → R

2 × 11 = ☐ → A

1 × 5 = ☐ → G

11 × 1 = ☐ → N

6 × 11 = ☐ → U

4 × 2 = ☐ → T

Scratch space:

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

> To share the grooming brushes equally among the cat towers, we divide the total.

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 ÷ 2 = ☐	49 ÷ 7 = ☐	132 ÷ 12 = ☐	30 ÷ 3 = ☐	20 ÷ 5 = ☐
18 ÷ 3 = ☐	50 ÷ 10 = ☐	132 ÷ 11 = ☐	4 ÷ 4 = ☐	36 ÷ 12 = ☐
12 ÷ 6 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain performed a high pounce, then grabbed the crinkle ball.
2. The villain completed a wall dash, then snatched the feather wand.
3. The villain let out a super purr, then grabbed the crinkle ball.
4. The villain executed a silent sneak, then knocked over the squeaky fish.
5. The villain executed a silent sneak, then swiped the catnip mouse.
6. The villain started a laser chase, then swiped the catnip mouse.
7. The villain started a laser chase, then snatched the feather wand.
8. The villain started a laser chase, then tangled up the yarn ball.
9. The villain started a laser chase, then knocked over the squeaky fish.
10. The villain completed a wall dash, then grabbed the crinkle ball.
11. The villain performed a high pounce, then tangled up the yarn ball.
12. The villain performed a high pounce, then knocked over the squeaky fish.

TEACHER / PARENT

Answer Key

The Great Catnip Caper

Culprit: Shadow

Laser Chase · Yarn Ball · Left Paws · Sleek Shorthair · Tuna Treat

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT PLAY WITH A CRINKLE BALL"

Round 2,898 to the nearest hundred = 2900 (T) · Round 293 to the nearest ten = 290 (S) · Round 89 to the nearest ten = 90 (H) · Round 1,783 to the nearest thousand = 2000 (Y) · Round 24 to the nearest ten = 20 (C) · Round 5,370 to the nearest thousand = 5000 (I) · Round 113 to the nearest ten = 110 (E) · Round 230 to the nearest ten = 230 (P) · Round 695 to the nearest hundred = 700 (L) · Round 2,273 to the nearest hundred = 2300 (V) · Round 1,070 to the nearest hundred = 1100 (K) · Round 884 to the nearest hundred = 900 (R) · Round 8,715 to the nearest thousand = 9000 (N) · Round 4,314 to the nearest hundred = 4300 (B) · Round 472 to the nearest hundred = 500 (O) · Round 1,740 to the nearest hundred = 1700 (D) · Round 1,276 to the nearest hundred = 1300 (A) · Round 430 to the nearest ten = 430 (W)

Clue 2 (Addition): "THE WITNESS SAW LEFT PAW PRINTS"

5347 + 3252 = 8599 (T) · 1622 + 2681 = 4303 (S) · 4023 + 3503 = 7526 (H) · 2901 + 2938 = 5839 (E) · 2469 + 3660 = 6129 (P) · 2398 + 2730 = 5128 (N) · 1206 + 2478 = 3684 (L) · 5641 + 2708 = 8349 (R) · 1425 + 946 = 2371 (F) · 4951 + 3617 = 8568 (W) · 757 + 1611 = 2368 (A) · 1172 + 2578 = 3750 (I)

Clue 3 (Subtraction): "THE SNEAK WAS STOPPED BY A TUNA TREAT"

5850 - 3952 = 1898 (T) · 6103 - 3615 = 2488 (B) · 5820 - 1725 = 4095 (E) · 6630 - 876 = 5754 (O) · 5643 - 4025 = 1618 (N) · 8928 - 1730 = 7198 (K) · 8558 - 1624 = 6934 (W) · 7864 - 4101 = 3763 (P) · 7894 - 3230 = 4664 (H) · 8196 - 4329 = 3867 (D) · 10790 - 4810 = 5980 (Y) · 6727 - 971 = 5756 (R) · 9865 - 1179 = 8686 (S) · 8731 - 2847 = 5884 (U) · 10647 - 4190 = 6457 (A)

Clue 4 (Multiplication facts (1-12)): "INVESTIGATORS FOUND SLEEK SHORTHAIR FUR"

8 × 8 = 64 (I) · 9 × 10 = 90 (D) · 5 × 10 = 50 (O) · 9 × 8 = 72 (S) · 2 × 2 = 4 (V) · 4 × 4 = 16 (L) · 7 × 11 = 77 (H) · 7 × 2 = 14 (K) · 11 × 10 = 110 (F) · 10 × 10 = 100 (E) · 4 × 8 = 32 (R) · 2 × 11 = 22 (A) · 1 × 5 = 5 (G) · 11 × 1 = 11 (N) · 6 × 11 = 66 (U) · 4 × 2 = 8 (T)

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

18 ÷ 2 = 9 · 49 ÷ 7 = 7 · 132 ÷ 12 = 11 · 30 ÷ 3 = 10 · 20 ÷ 5 = 4 · 18 ÷ 3 = 6 · 50 ÷ 10 = 5 · 132 ÷ 11 = 12 · 4 ÷ 4 = 1 · 36 ÷ 12 = 3 · 12 ÷ 6 = 2