The Great Catnip Heist

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

Detective: _____ **Date:** _____

The legendary Golden Fish Trophy has vanished from the museum vault! Only a super-sneaky feline could have bypassed the laser beams. Officer Paws of the Kitty Patrol is on the case, but he needs your help to crack the codes and find the real 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 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	HEIST TOOL	ESCAPE METHOD	DOMINANT PAW	FUR COLOR	DISTRACTION
Smokey	laser pointer	cardboard box	right pawed	tabby stripes	crinkly paper
Morris	spring shoes	trampoline	right pawed	tabby stripes	shaken treat jar
Bandit	laser pointer	yarn swing	left pawed	tuxedo fur	crinkly paper
Tom	spring shoes	cardboard box	left pawed	calico fur	shaken treat jar
Whiskers	laser pointer	cardboard box	right pawed	tuxedo fur	crinkly paper
Gizmo	climbing claws	zipline	right pawed	tabby stripes	shaken treat jar
Bella	spring shoes	cardboard box	right pawed	tabby stripes	laser dot
Cleo	spring shoes	yarn swing	right pawed	tabby stripes	shaken treat jar
Mittens	sticky gloves	zipline	left pawed	calico fur	shaken treat jar
Milo	suction cups	trampoline	right pawed	tabby stripes	crinkly paper
Buster	climbing claws	cardboard box	right pawed	tabby stripes	shaken treat jar
Garfield	suction cups	zipline	left pawed	tabby stripes	shaken treat jar
Socks	sticky gloves	zipline	right pawed	tabby stripes	laser dot
Luna	sticky gloves	yarn swing	right pawed	calico fur	laser dot
Boots	sticky gloves	zipline	right pawed	calico fur	crinkly paper
Shadow	laser pointer	cardboard box	left pawed	tuxedo fur	crinkly paper
Hobbes	suction cups	cardboard box	right pawed	tuxedo fur	laser dot
Sylvester	climbing claws	yarn swing	right pawed	calico fur	laser dot
Oliver	climbing claws	yarn swing	right pawed	tuxedo fur	shaken treat jar
Simba	sticky gloves	yarn swing	left pawed	tabby stripes	shaken treat jar
Chloe	climbing claws	trampoline	right pawed	tabby stripes	shaken treat jar

CLUE 1 Addition

> Officer Paws counts up all the missing fish treats at the museum snack bar. Adding the tuna treats to the salmon treats reveals the first clue!

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

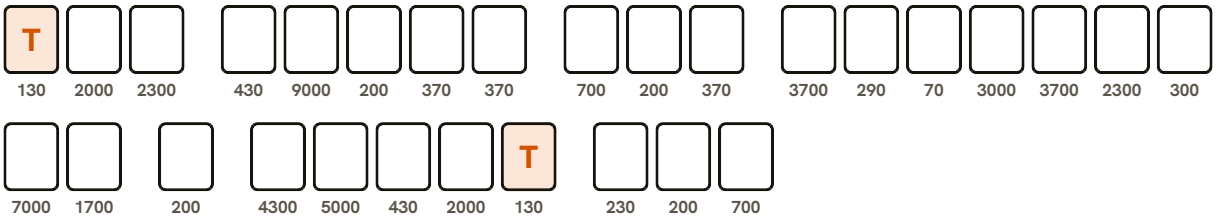
1523 + 1071 = ☐ → T	3423 + 6192 = ☐ → B	2201 + 1593 = ☐ → R
6297 + 3047 = ☐ → A	2840 + 2849 = ☐ → U	2874 + 1354 = ☐ → X
2337 + 2105 = ☐ → O	1782 + 3749 = ☐ → N	5673 + 2887 = ☐ → H
2727 + 1847 = ☐ → D	2102 + 1643 = ☐ → L	829 + 1596 = ☐ → E
1886 + 937 = ☐ → P	2545 + 1233 = ☐ → G	2594 + 4516 = ☐ → C
5350 + 3880 = ☐ → S	4669 + 2683 = ☐ → I	

Scratch space:

CLUE 2 Rounding

> The security radar flashes a fuzzy signal. Officer Paws rounds the frequency to the nearest ten to get a clear picture of the escape route!

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



Round 126 to the nearest ten ☐ → T

Round 277 to the nearest hundred ☐ → D

Round 2,630 to the nearest thousand ☐ → C

Round 2,422 to the nearest thousand ☐ → H

Round 3,724 to the nearest hundred ☐ → K

Round 8,658 to the nearest thousand ☐ → L

Round 429 to the nearest ten ☐ → G

Round 5,278 to the nearest thousand ☐ → I

Round 216 to the nearest hundred ☐ → A

Round 7,373 to the nearest thousand ☐ → B

Round 226 to the nearest ten ☐ → P

Round 4,263 to the nearest hundred ☐ → R

Round 2,263 to the nearest hundred ☐ → E

Round 1,697 to the nearest hundred ☐ → Y

Round 67 to the nearest ten ☐ → O

Round 289 to the nearest ten ☐ → N

Round 369 to the nearest ten ☐ → S

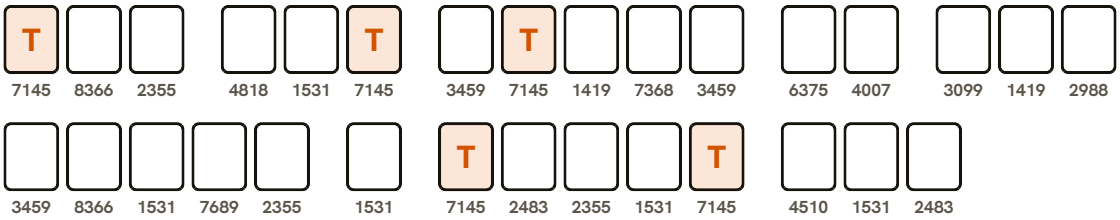
Round 666 to the nearest hundred ☐ → W

Scratch space:

CLUE 3 Subtraction

> A giant bowl of milk was spilled. Officer Paws subtracts the remaining milk from the full bottle to find exactly how much the sneaky thief drank!

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



12064 - 4919 = ☐ → T

7579 - 4591 = ☐ → U

6295 - 2288 = ☐ → F

2509 - 26 = ☐ → R

8771 - 1403 = ☐ → P

3827 - 2408 = ☐ → O

11773 - 3407 = ☐ → H

3866 - 2335 = ☐ → A

5941 - 1123 = ☐ → C

5863 - 3508 = ☐ → E

9864 - 3489 = ☐ → I

5486 - 2027 = ☐ → S

4428 - 1329 = ☐ → Y

7976 - 287 = ☐ → K

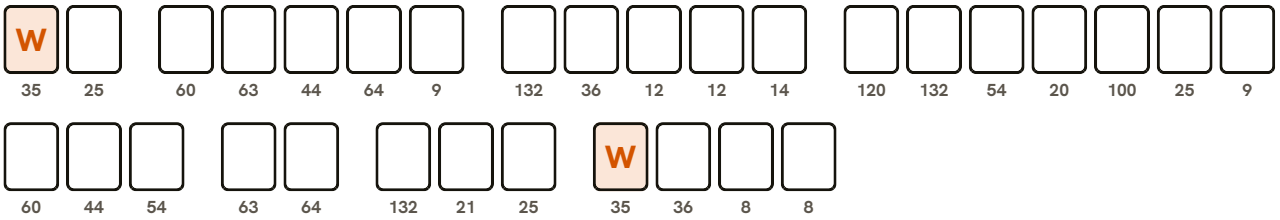
4936 - 426 = ☐ → J

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The suspect left paw prints across the room. By multiplying the rows of paw prints by the columns, Officer Paws unlocks the next clue!

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



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

7 × 2 = ☐ → Y

Scratch space:

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

> Officer Paws splits a pile of catnip toys equally among the sleepy kittens. The division reveals the final clue about our suspect!

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:

40 ÷ 8 = ☐	6 ÷ 3 = ☐	36 ÷ 4 = ☐	3 ÷ 3 = ☐	20 ÷ 5 = ☐
100 ÷ 10 = ☐	60 ÷ 10 = ☐	55 ÷ 5 = ☐	12 ÷ 4 = ☐	72 ÷ 6 = ☐
48 ÷ 6 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain scaled the wall with suction cups, then swung to safety on a yarn swing.
2. The villain dug in with sharp climbing claws, then hopped far on a mini trampoline.
3. The villain shined a bright laser pointer, then slid down a long wire zipline.
4. The villain scaled the wall with suction cups, then soared away on glider wings.
5. The villain dug in with sharp climbing claws, then slid down a long wire zipline.
6. The villain bounced high on spring shoes, then slid down a long wire zipline.
7. The villain bounced high on spring shoes, then hopped far on a mini trampoline.
8. The villain scaled the wall with suction cups, then slid down a long wire zipline.
9. The villain bounced high on spring shoes, then swung to safety on a yarn swing.
10. The villain shined a bright laser pointer, then soared away on glider wings.
11. The villain crept up with sticky gloves, then slid down a long wire zipline.
12. The villain crept up with sticky gloves, then hopped far on a mini trampoline.

TEACHER / PARENT

Answer Key

The Great Catnip Heist

Culprit: Morris

spring shoes · trampoline · right pawed · tabby stripes · shaken treat jar

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BURGLAR DID NOT ESCAPE IN A BOX"

1523 + 1071 = 2594 (T) · 3423 + 6192 = 9615 (B) · 2201 + 1593 = 3794 (R) · 6297 + 3047 = 9344 (A) · 2840 + 2849 = 5689 (U) · 2874 + 1354 = 4228 (X) · 2337 + 2105 = 4442 (O) · 1782 + 3749 = 5531 (N) · 5673 + 2887 = 8560 (H) · 2727 + 1847 = 4574 (D) · 2102 + 1643 = 3745 (L) · 829 + 1596 = 2425 (E) · 1886 + 937 = 2823 (P) · 2545 + 1233 = 3778 (G) · 2594 + 4516 = 7110 (C) · 5350 + 3880 = 9230 (S) · 4669 + 2683 = 7352 (I)

Clue 2 (Rounding): "THE GLASS WAS KNOCKED BY A RIGHT PAW"

Round 126 to the nearest ten = 130 (T) · Round 277 to the nearest hundred = 300 (D) · Round 2,630 to the nearest thousand = 3000 (C) · Round 2,422 to the nearest thousand = 2000 (H) · Round 3,724 to the nearest hundred = 3700 (K) · Round 8,658 to the nearest thousand = 9000 (L) · Round 429 to the nearest ten = 430 (G) · Round 5,278 to the nearest thousand = 5000 (I) · Round 216 to the nearest hundred = 200 (A) · Round 7,373 to the nearest thousand = 7000 (B) · Round 226 to the nearest ten = 230 (P) · Round 4,263 to the nearest hundred = 4300 (R) · Round 2,263 to the nearest hundred = 2300 (E) · Round 1,697 to the nearest hundred = 1700 (Y) · Round 67 to the nearest ten = 70 (O) · Round 289 to the nearest ten = 290 (N) · Round 369 to the nearest ten = 370 (S) · Round 666 to the nearest hundred = 700 (W)

Clue 3 (Subtraction): "THE CAT STOPS IF YOU SHAKE A TREAT JAR"

12064 - 4919 = 7145 (T) · 7579 - 4591 = 2988 (U) · 6295 - 2288 = 4007 (F) · 2509 - 26 = 2483 (R) · 8771 - 1403 = 7368 (P) · 3827 - 2408 = 1419 (O) · 11773 - 3407 = 8366 (H) · 3866 - 2335 = 1531 (A) · 5941 - 1123 = 4818 (C) · 5863 - 3508 = 2355 (E) · 9864 - 3489 = 6375 (I) · 5486 - 2027 = 3459 (S) · 4428 - 1329 = 3099 (Y) · 7976 - 287 = 7689 (K) · 4936 - 426 = 4510 (J)

Clue 4 (Multiplication facts (1-12)): "WE FOUND TABBY STRIPED FUR ON THE WALL"

5 × 7 = 35 (W) · 5 × 5 = 25 (E) · 12 × 11 = 132 (T) · 7 × 3 = 21 (H) · 4 × 11 = 44 (U) · 9 × 1 = 9 (D) · 10 × 6 = 60 (F) · 8 × 8 = 64 (N) · 10 × 2 = 20 (I) · 12 × 3 = 36 (A) · 6 × 2 = 12 (B) · 6 × 9 = 54 (R) · 7 × 2 = 14 (Y) · 4 × 2 = 8 (L) · 9 × 7 = 63 (O) · 10 × 10 = 100 (P) · 10 × 12 = 120 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Morris

40 ÷ 8 = 5 · 6 ÷ 3 = 2 · 36 ÷ 4 = 9 · 3 ÷ 3 = 1 · 20 ÷ 5 = 4 · 100 ÷ 10 = 10 · 60 ÷ 10 = 6 · 55 ÷ 5 = 11 · 12 ÷ 4 = 3 · 72 ÷ 6 = 12 · 48 ÷ 6 = 8