



The Mystery of the Missing Golden Tuna

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

Detective: _____ Date: _____

Someone snuck into Meme Central Cafe and swiped the famous Golden Tuna Trophy! Use your math skills and deductive clues to find out which naughty cat 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 Meme Bandit is _____

Possible suspects

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

NAME	ZOOMIE STYLE	SNACK HABIT	FAVORED PAW	FUR PATTERN	SECRET WEAKNESS
Maru	Keyboard Stomp	Piano Jam	Right Pawed	Tuxedo Coat	Spray Bottle
Ceiling Cat	Box Fitting	Ceiling Glide	Right Pawed	Calico Patches	Catnip Spray
Beluga	Zoomies Rush	Piano Jam	Right Pawed	Orange Fur	Spray Bottle
Mister Whiskers	Laser Stare	Piano Jam	Left Pawed	Orange Fur	Spray Bottle
Smudge	Zoomies Rush	Ceiling Glide	Right Pawed	Calico Patches	Catnip Spray
Socks	Keyboard Stomp	Popcorn Munch	Right Pawed	Calico Patches	Squeaky Mouse
Mittens	Keyboard Stomp	Ceiling Glide	Right Pawed	Orange Fur	Catnip Spray
Grumpy Cat	Zoomies Rush	Cheezburger Bite	Left Pawed	Orange Fur	Catnip Spray
Garfield	Keyboard Stomp	Ceiling Glide	Left Pawed	Tuxedo Coat	Squeaky Mouse
Popcat	Laser Stare	Piano Jam	Right Pawed	Calico Patches	Catnip Spray
Pickles	Box Fitting	Ceiling Glide	Right Pawed	Calico Patches	Squeaky Mouse
Bongo Cat	Zoomies Rush	Cheezburger Bite	Left Pawed	Tuxedo Coat	Spray Bottle
Sylvester	Keyboard Stomp	Cheezburger Bite	Left Pawed	Calico Patches	Spray Bottle
Keyboard Cat	Loud Yowl	Piano Jam	Right Pawed	Calico Patches	Squeaky Mouse
Captain Paw	Laser Stare	Banana Shock	Right Pawed	Calico Patches	Catnip Spray
Tom Cat	Loud Yowl	Ceiling Glide	Left Pawed	Tuxedo Coat	Squeaky Mouse
Longcat	Keyboard Stomp	Ceiling Glide	Left Pawed	Calico Patches	Catnip Spray
Professor Fluff	Laser Stare	Popcorn Munch	Left Pawed	Calico Patches	Squeaky Mouse
Duchess	Zoomies Rush	Piano Jam	Left Pawed	Orange Fur	Spray Bottle
Lil Bub	Zoomies Rush	Ceiling Glide	Right Pawed	Calico Patches	Squeaky Mouse
Sir Pounce	Keyboard Stomp	Cheezburger Bite	Right Pawed	Calico Patches	Catnip Spray

CLUE 1



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Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 15 boxes, and the bottom row contains 14 boxes. Some boxes are shaded orange and contain the letter 'T'.

Top Row (15 boxes):

- Box 1: Orange, contains 'T'. Below: 700
- Box 2: White. Below: 170
- Box 3: White. Below: 1300
- Box 4: White. Below: 3000
- Box 5: White. Below: 290
- Box 6: White. Below: 7000
- Box 7: White. Below: 7000
- Box 8: White. Below: 1100
- Box 9: White. Below: 290
- Box 10: White. Below: 20
- Box 11: White. Below: 200
- Box 12: White. Below: 290
- Box 13: White. Below: 200
- Box 14: White. Below: 20
- Box 15: Orange, contains 'T'. Below: 2900
- Box 16: White. Below: 700
- Box 17: White. Below: 4300
- Box 18: White. Below: 2300
- Box 19: White. Below: 1300

Bottom Row (14 boxes):

- Box 1: White. Below: 3700
- Box 2: White. Below: 170
- Box 3: White. Below: 1300
- Box 4: White. Below: 1300
- Box 5: White. Below: 900
- Box 6: White. Below: 70
- Box 7: White. Below: 4300
- Box 8: White. Below: 230
- Box 9: White. Below: 430
- Box 10: White. Below: 1300
- Box 11: White. Below: 230
- Box 12: White. Below: 70
- Box 13: White. Below: 290
- Box 14: Orange, contains 'T'. Below: 700
- Box 15: White. Below: 1300

Round 727 to the nearest hundred → **T**

Round 2,258 to the nearest hundred →

Round 20 to the nearest ten → **N**

Round 4,313 to the nearest hundred →

Round 1,119 to the nearest hundred → **A**

Round 168 to the nearest ten $\rightarrow$ **H**

Round 876 to the nearest hundred $\rightarrow$ **Z**

Round 426 to the nearest ten → **G**

Round 219 to the nearest hundred $\rightarrow$ **D**

Round 3,742 to the nearest hundred → **C**

Round 6,850 to the nearest thousand →

Round 291 to the nearest ten $\rightarrow$

Round 72 to the nearest ten → **B**

Round 3,360 to the nearest thousand $\rightarrow$ **V**

Round 1,271 to the nearest hundred → **E**

Round 231 to the nearest ten → **R**

Round 2,922 to the nearest hundred →

Scratch space:

CLUE 2

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

Diagram illustrating memory layout with two rows of blocks. The top row contains 18 blocks, and the bottom row contains 9 blocks. The address of each block is displayed below it. The block at address 8732 in both rows is highlighted with an orange background and a red 'T'.

Row	Block Index	Address	Highlighted
Top Row	1	8732	Yes
	2	8818	No
	3	3132	No
	4	5347	No
	5	3059	No
	6	4660	No
	7	4660	No
	8	8748	No
	9	3059	No
	10	7069	No
	11	9329	No
	12	3429	No
	13	3059	No
	14	7295	No
	15	3132	No
	16	4333	No
	17	3429	No
	18	3059	No
Bottom Row	1	8748	No
	2	7218	No
	3	3059	No
	4	9611	No
	5	8818	No
	6	8732	Yes
	7	7295	No
	8	8748	No
	9	3429	No

$$3006 + 5726 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$4063 + 5266 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$3009 + 1651 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$4245 + 2824 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1825 + 3522 = \boxed{} \rightarrow \boxed{\text{V}}$$

$2989 + 5759 = \boxed{} \rightarrow \boxed{\text{A}}$

$$1386 + 1746 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2477 + 4741 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$919 + 2140 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$5224 + 4387 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$1357 + 2976 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$3975 + 3320 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$3673 + 5145 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$1884 + 1545 = \boxed{} \rightarrow \boxed{\text{W}}$$

Scratch space:

CLUE 3
Subtraction

Comparing the remaining catnip toys to the missing ones gave us a new clue.

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

T											T					
1682	2603	6405	3506	6444	6405	7435	6785	7707	4644	7435	1682	5911	7584	6405	6405	3506

						T										
5911	5508	1474	4177	4644	7435	1682	6444	4579	6075	3506	6075	5508	7435	7707		

$5379 - 3697 = \square \rightarrow \text{**T**}$

$6139 - 631 = \square \rightarrow \text{**R**}$

$12500 - 4793 = \square \rightarrow \text{**Y**}$

$7246 - 1335 = \square \rightarrow \text{**F**}$

$6644 - 2000 = \square \rightarrow \text{**C**}$

$10361 - 3956 = \square \rightarrow \text{**E**}$

$4504 - 3030 = \square \rightarrow \text{**O**}$

$6919 - 2742 = \square \rightarrow \text{**M**}$

$6559 - 484 = \square \rightarrow \text{**P**}$

$8169 - 1725 = \square \rightarrow \text{**N**}$

$4733 - 154 = \square \rightarrow \text{**I**}$

$11681 - 4896 = \square \rightarrow \text{**K**}$

$4764 - 2161 = \square \rightarrow \text{**H**}$

$11940 - 4505 = \square \rightarrow \text{**A**}$

$7297 - 3791 = \square \rightarrow \text{**S**}$

$11929 - 4345 = \square \rightarrow \text{**L**}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

Each shelf has identical rows of canned food to count up.

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

C				C					C										
132	22	7	30	132	55	88	22	28	132	5	42	99	55	81	81	20	44		
144	42	44	42	7	42	81	28	36	42	5	30	120	84						

$12 \times 11 = \square \rightarrow \text{C}$

$4 \times 9 = \square \rightarrow \text{B}$

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

$10 \times 12 = \square \rightarrow \text{N}$

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

$7 \times 6 = \square \rightarrow \text{E}$

$12 \times 12 = \square \rightarrow \text{W}$

$9 \times 11 = \square \rightarrow \text{S}$

$5 \times 1 = \square \rightarrow \text{H}$

$5 \times 11 = \square \rightarrow \text{O}$

$10 \times 3 = \square \rightarrow \text{I}$

$2 \times 10 = \square \rightarrow \text{U}$

$7 \times 1 = \square \rightarrow \text{L}$

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

$4 \times 11 = \square \rightarrow \text{R}$

$7 \times 4 = \square \rightarrow \text{T}$

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

Scratch space:

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

Sharing the fish biscuits equally among the cat shelters revealed the final code.

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:

$11 \div 1 = \boxed{}$

$40 \div 10 = \boxed{}$

$72 \div 12 = \boxed{}$

$50 \div 10 = \boxed{}$

$8 \div 8 = \boxed{}$

$4 \div 2 = \boxed{}$

$32 \div 4 = \boxed{}$

$108 \div 12 = \boxed{}$

$90 \div 9 = \boxed{}$

$132 \div 11 = \boxed{}$

$49 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain ran around with wild zoomies, then nibbling a cheezburger.
2. The villain stared intensely at the laser, then gliding across the ceiling.
3. The villain stared intensely at the laser, then gasping at a banana.
4. The villain stared intensely at the laser, then playing a tune on the piano.
5. The villain squeezed into a tiny box, then playing a tune on the piano.
6. The villain squeezed into a tiny box, then gliding across the ceiling.
7. The villain stared intensely at the laser, then nibbling a cheezburger.
8. The villain squeezed into a tiny box, then nibbling a cheezburger.
9. The villain ran around with wild zoomies, then gasping at a banana.
10. The villain stepped on the warm keyboard, then playing a tune on the piano.
11. The villain ran around with wild zoomies, then gliding across the ceiling.
12. The villain squeezed into a tiny box, then gasping at a banana.

Answer Key

The Mystery of the Missing Golden Tuna

Culprit: Captain Paw

Laser Stare · Banana Shock · Right Pawed · Calico Patches · Catnip Spray

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DID NOT USE CHEEZBURGER BITE"

Round 727 to the nearest hundred = 700 (T) · Round 2,258 to the nearest hundred = 2300 (S) · Round 20 to the nearest ten = 20 (N) · Round 4,313 to the nearest hundred = 4300 (U) · Round 1,119 to the nearest hundred = 1100 (A) · Round 168 to the nearest ten = 170 (H) · Round 876 to the nearest hundred = 900 (Z) · Round 426 to the nearest ten = 430 (G) · Round 219 to the nearest hundred = 200 (D) · Round 3,742 to the nearest hundred = 3700 (C) · Round 6,850 to the nearest thousand = 7000 (L) · Round 291 to the nearest ten = 290 (I) · Round 72 to the nearest ten = 70 (B) · Round 3,360 to the nearest thousand = 3000 (V) · Round 1,271 to the nearest hundred = 1300 (E) · Round 231 to the nearest ten = 230 (R) · Round 2,922 to the nearest hundred = 2900 (O)

Clue 2 (Addition): "THE VILLAIN SWIPED WITH A RIGHT PAW"

$3006 + 5726 = 8732$ (T) · $4063 + 5266 = 9329$ (S) · $3009 + 1651 = 4660$ (L) · $4245 + 2824 = 7069$ (N) · $1825 + 3522 = 5347$ (V) · $2989 + 5759 = 8748$ (A) · $1386 + 1746 = 3132$ (E) · $2477 + 4741 = 7218$ (R) · $919 + 2140 = 3059$ (I) · $5224 + 4387 = 9611$ (G) · $1357 + 2976 = 4333$ (D) · $3975 + 3320 = 7295$ (P) · $3673 + 5145 = 8818$ (H) · $1884 + 1545 = 3429$ (W)

Clue 3 (Subtraction): "THE SNEAKY CAT FLEES FROM CATNIP SPRAY"

$5379 - 3697 = 1682$ (T) · $6139 - 631 = 5508$ (R) · $12500 - 4793 = 7707$ (Y) · $7246 - 1335 = 5911$ (F) · $6644 - 2000 = 4644$ (C) · $10361 - 3956 = 6405$ (E) · $4504 - 3030 = 1474$ (O) · $6919 - 2742 = 4177$ (M) · $6559 - 484 = 6075$ (P) · $8169 - 1725 = 6444$ (N) · $4733 - 154 = 4579$ (I) · $11681 - 4896 = 6785$ (K) · $4764 - 2161 = 2603$ (H) · $11940 - 4505 = 7435$ (A) · $7297 - 3791 = 3506$ (S) · $11929 - 4345 = 7584$ (L)

Clue 4 (Multiplication facts (1-12)): "CALICO PATCHES OF FUR WERE LEFT BEHIND"

$12 \times 11 = 132$ (C) · $4 \times 9 = 36$ (B) · $12 \times 7 = 84$ (D) · $10 \times 12 = 120$ (N) · $11 \times 8 = 88$ (P) · $7 \times 6 = 42$ (E) · $12 \times 12 = 144$ (W) · $9 \times 11 = 99$ (S) · $5 \times 1 = 5$ (H) · $5 \times 11 = 55$ (O) · $10 \times 3 = 30$ (I) · $2 \times 10 = 20$ (U) · $7 \times 1 = 7$ (L) · $9 \times 9 = 81$ (F) · $4 \times 11 = 44$ (R) · $7 \times 4 = 28$ (T) · $11 \times 2 = 22$ (A)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Captain Paw

$11 \div 1 = 11$ · $40 \div 10 = 4$ · $72 \div 12 = 6$ · $50 \div 10 = 5$ · $8 \div 8 = 1$ · $4 \div 2 = 2$ · $32 \div 4 = 8$ · $108 \div 12 = 9$ · $90 \div 9 = 10$ · $132 \div 11 = 12$ · $49 \div 7 = 7$