The Case of the Missing Golden Catnip

Grade 1 math · Addition, Subtraction, Skip counting, Place value, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into Whisker Haven Bakery and snatched the world famous Golden Catnip treat! Chef Purrcival needs your help to examine the evidence and catch the 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 Sneaky Cat Burglar is _____

Possible suspects

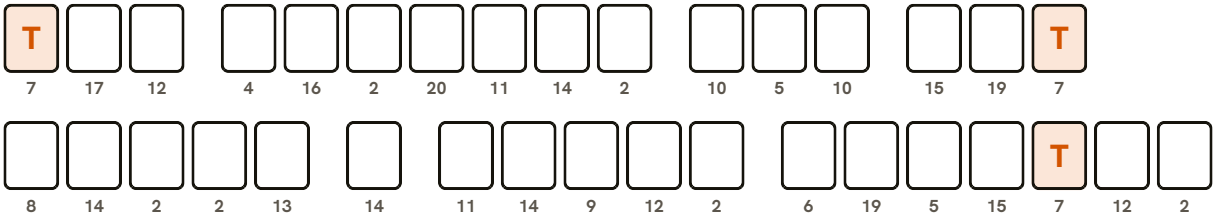
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIAL SKILL	FAVORITE TOY	PAW HABIT	FUR STYLE	DISTRACTED BY
Hazel	Night Sight	Feather Wand	Left Pawed	Striped Tabby Fur	Warm Sunbeams
Peanut	High Jump	Squeaky Toy	Left Pawed	Striped Tabby Fur	Warm Sunbeams
Smokey	Fast Sprint	Laser Pointer	Left Pawed	Sleek Black Fur	Warm Sunbeams
Milo	Super Pounce	Squeaky Toy	Right Pawed	Sleek Black Fur	Crinkly Bags
Barnaby	Fast Sprint	Feather Wand	Right Pawed	Fluffy White Fur	Crinkly Bags
Shadow	Super Pounce	Squeaky Toy	Left Pawed	Fluffy White Fur	Crinkly Bags
Oliver	Night Sight	Catnip Mouse	Right Pawed	Striped Tabby Fur	Warm Sunbeams
Felix	Super Pounce	Feather Wand	Left Pawed	Striped Tabby Fur	Crinkly Bags
Leo	Super Pounce	Squeaky Toy	Left Pawed	Striped Tabby Fur	Warm Sunbeams
Penelope	High Jump	Catnip Mouse	Left Pawed	Striped Tabby Fur	Warm Sunbeams
Simba	Night Sight	Yarn Ball	Right Pawed	Sleek Black Fur	Crinkly Bags
Ziggy	High Jump	Squeaky Toy	Left Pawed	Sleek Black Fur	Warm Sunbeams
Bella	High Jump	Laser Pointer	Right Pawed	Striped Tabby Fur	Tuna Treats
Jasper	Night Sight	Laser Pointer	Right Pawed	Fluffy White Fur	Crinkly Bags
Max	High Jump	Yarn Ball	Left Pawed	Fluffy White Fur	Crinkly Bags
Luna	Night Sight	Squeaky Toy	Right Pawed	Fluffy White Fur	Tuna Treats
Charlie	Silent Tread	Laser Pointer	Left Pawed	Striped Tabby Fur	Warm Sunbeams
Mia	High Jump	Squeaky Toy	Left Pawed	Fluffy White Fur	Warm Sunbeams
Willow	Fast Sprint	Squeaky Toy	Left Pawed	Sleek Black Fur	Crinkly Bags
Oreo	Night Sight	Yarn Ball	Right Pawed	Striped Tabby Fur	Crinkly Bags
Toby	Fast Sprint	Catnip Mouse	Left Pawed	Striped Tabby Fur	Tuna Treats

CLUE 1 Addition

> Chef Purrcival counted up all the spilled baking treats to gather your very first lead.

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



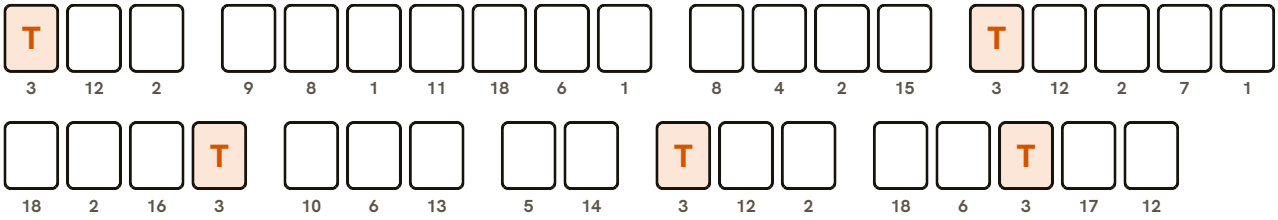
5 + 2 = ☐ → T	4 + 4 = ☐ → C	14 + 6 = ☐ → G
5 + 14 = ☐ → O	1 + 1 = ☐ → R	5 + 8 = ☐ → Y	6 + 3 = ☐ → S
12 + 4 = ☐ → U	2 + 3 = ☐ → I	11 + 6 = ☐ → H
8 + 4 = ☐ → E	5 + 9 = ☐ → A	11 + 4 = ☐ → N	4 + 7 = ☐ → L
3 + 1 = ☐ → B	4 + 6 = ☐ → D	4 + 2 = ☐ → P

Scratch space:

CLUE 2 Subtraction

You checked how many milk bowls were left after the commotion to rule out another clue.

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



5 - 2 = ☐ → T

6 - 1 = ☐ → O

20 - 8 = ☐ → H

13 - 4 = ☐ → B

10 - 6 = ☐ → S

13 - 7 = ☐ → A

19 - 1 = ☐ → L

12 - 4 = ☐ → U

12 - 1 = ☐ → G

20 - 5 = ☐ → D

20 - 4 = ☐ → F

15 - 5 = ☐ → P

6 - 5 = ☐ → R

13 - 6 = ☐ → I

18 - 1 = ☐ → C

6 - 4 = ☐ → E

14 - 1 = ☐ → W

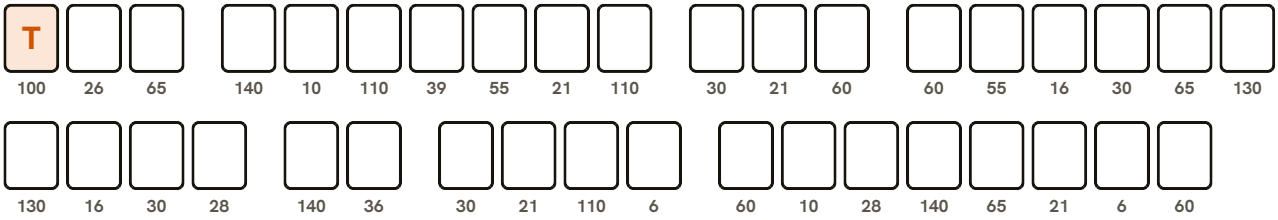
18 - 4 = ☐ → N

Scratch space:

CLUE 3 Skip counting

The detective counted paw prints in groups of two along the bakery hallway.

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



Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, ___, 33, 36 ☐ → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → **B**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 ☐ → **D**

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **M**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 ☐ → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 ☐ → **A**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 ☐ → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 ☐ → **S**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 ☐ → **G**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → **U**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → **N**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 ☐ → **O**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → **Y**

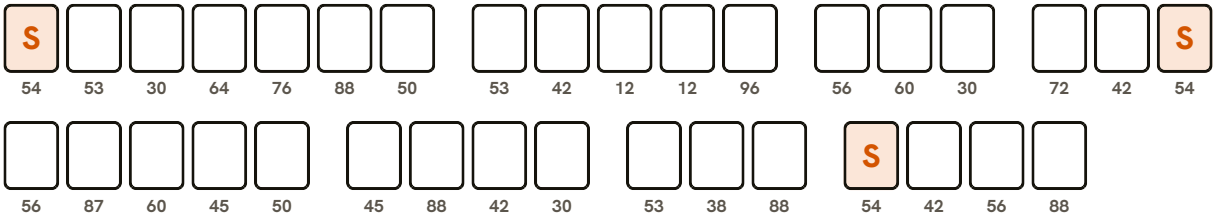
Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → **R**

Scratch space:

CLUE 4 Place value

Analyzing the mystery code on the recipe vault reveals a key detail about the culprit.

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



What number has 5 tens and 4 ones? ☐ → S

What number has 9 tens and 6 ones? ☐ → Y

What number has 5 tens and 0 ones? ☐ → D

What number has 4 tens and 2 ones? ☐ → A

What number has 6 tens and 4 ones? ☐ → I

What number has 8 tens and 7 ones? ☐ → O

What number has 7 tens and 2 ones? ☐ → W

What number has 6 tens and 0 ones? ☐ → U

What number has 4 tens and 5 ones? ☐ → N

What number has 3 tens and 0 ones? ☐ → R

What number has 8 tens and 8 ones? ☐ → E

What number has 1 ten and 2 ones? ☐ → B

What number has 3 tens and 8 ones? ☐ → H

What number has 5 tens and 3 ones? ☐ → T

What number has 5 tens and 6 ones? ☐ → F

What number has 7 tens and 6 ones? ☐ → P

Scratch space:

CLUE 5 Missing addends - the last clue

Work out how many missing cat biscuits complete the clue to make your final discovery.

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:

1 + ___ = 9 ☐	6 + ___ = 15 ☐	6 + ___ = 17 ☐	1 + ___ = 4 ☐
2 + ___ = 14 ☐	4 + ___ = 8 ☐	10 + ___ = 20 ☐	5 + ___ = 10 ☐
7 + ___ = 8 ☐	2 + ___ = 4 ☐	7 + ___ = 13 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain sprinted past the pantry, then grabbed the feather wand.
2. The villain leaped over the counter, then snatched the catnip mouse.
3. The villain crawled under the table, then snatched the catnip mouse.
4. The villain pounced onto the shelf, then swiped the yarn ball.
5. The villain crawled under the table, then took the squeaky toy.
6. The villain snuck through the window, then swiped the yarn ball.
7. The villain pounced onto the shelf, then took the squeaky toy.
8. The villain leaped over the counter, then took the squeaky toy.
9. The villain crawled under the table, then grabbed the feather wand.
10. The villain pounced onto the shelf, then grabbed the feather wand.
11. The villain pounced onto the shelf, then snatched the catnip mouse.
12. The villain snuck through the window, then dropped the laser pointer.

TEACHER / PARENT

Answer Key

The Case of the Missing Golden Catnip

Culprit: Peanut

High Jump · Squeaky Toy · Left Pawed · Striped Tabby Fur · Warm Sunbeams

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BURGLAR DID NOT CARRY A LASER POINTER"

5 + 2 = 7 (T) · 4 + 4 = 8 (C) · 14 + 6 = 20 (G) · 5 + 14 = 19 (O) · 1 + 1 = 2 (R) · 5 + 8 = 13 (Y) · 6 + 3 = 9 (S) · 12 + 4 = 16 (U) · 2 + 3 = 5 (I) · 11 + 6 = 17 (H) · 8 + 4 = 12 (E) · 5 + 9 = 14 (A) · 11 + 4 = 15 (N) · 4 + 7 = 11 (L) · 3 + 1 = 4 (B) · 4 + 6 = 10 (D) · 4 + 2 = 6 (P)

Clue 2 (Subtraction): "THE BURGLAR USED THEIR LEFT PAW ON THE LATCH"

5 - 2 = 3 (T) · 6 - 1 = 5 (O) · 20 - 8 = 12 (H) · 13 - 4 = 9 (B) · 10 - 6 = 4 (S) · 13 - 7 = 6 (A) · 19 - 1 = 18 (L) · 12 - 4 = 8 (U) · 12 - 1 = 11 (G) · 20 - 5 = 15 (D) · 20 - 4 = 16 (F) · 15 - 5 = 10 (P) · 6 - 5 = 1 (R) · 13 - 6 = 7 (I) · 18 - 1 = 17 (C) · 6 - 4 = 2 (E) · 14 - 1 = 13 (W) · 18 - 4 = 14 (N)

Clue 3 (Skip counting): "THE BURGLAR WAS SLOWED DOWN BY WARM SUNBEAMS"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, ___, 33, 36 = 30 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (D) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (M) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 = 21 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 = 60 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 = 39 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (R)

Clue 4 (Place value): "STRIPED TABBY FUR WAS FOUND NEAR THE SAFE"

What number has 5 tens and 4 ones? = 54 (S) · What number has 9 tens and 6 ones? = 96 (Y) · What number has 5 tens and 0 ones? = 50 (D) · What number has 4 tens and 2 ones? = 42 (A) · What number has 6 tens and 4 ones? = 64 (I) · What number has 8 tens and 7 ones? = 87 (O) · What number has 7 tens and 2 ones? = 72 (W) · What number has 6 tens and 0 ones? = 60 (U) · What number has 4 tens and 5 ones? = 45 (N) · What number has 3 tens and 0 ones? = 30 (R) · What number has 8 tens and 8 ones? = 88 (E) · What number has 1 ten and 2 ones? = 12 (B) · What number has 3 tens and 8 ones? = 38 (H) · What number has 5 tens and 3 ones? = 53 (T) · What number has 5 tens and 6 ones? = 56 (F) · What number has 7 tens and 6 ones? = 76 (P)

Clue 5 (Missing addends): surviving statement is box 7 → Peanut

1 + ___ = 9 = 8 · 6 + ___ = 15 = 9 · 6 + ___ = 17 = 11 · 1 + ___ = 4 = 3 · 2 + ___ = 14 = 12 · 4 + ___ = 8 = 4 · 10 + ___ = 20 = 10 · 5 + ___ = 10 = 5 · 7 + ___ = 8 = 1 · 2 + ___ = 4 = 2 · 7 + ___ = 13 = 6