



# The Case of the Missing Golden Fish

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

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The Golden Fish Statue has vanished from the Kitty City Museum! Mayor Meow needs the best paw on the case. Use your math skills to help our top detective sniff out the tricky 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      | SUPER SKILL  | SECRET GADGET  | FAVORITE PAW | COAT COLOR     | DISTRACTION   |
|-----------|--------------|----------------|--------------|----------------|---------------|
| Sylvester | Night Vision | Catnip Bomb    | Left Pawed   | Calico Patches | Crinkly Paper |
| Gizmo     | Wall Climb   | Laser Pointer  | Left Pawed   | Orange Tabby   | Warm Sunshine |
| Felix     | Super Jump   | Laser Pointer  | Left Pawed   | Orange Tabby   | Warm Sunshine |
| Tom       | Super Purr   | Yarn Launcher  | Left Pawed   | Sleek Black    | Warm Sunshine |
| Luna      | Super Jump   | Yarn Launcher  | Left Pawed   | Orange Tabby   | Crinkly Paper |
| Socks     | Super Purr   | Catnip Bomb    | Left Pawed   | Orange Tabby   | Warm Sunshine |
| Rusty     | Silent Sneak | Yarn Launcher  | Left Pawed   | Sleek Black    | Warm Sunshine |
| Milo      | Night Vision | Laser Pointer  | Left Pawed   | Orange Tabby   | Warm Sunshine |
| Shadow    | Silent Sneak | Catnip Bomb    | Right Pawed  | Orange Tabby   | Squeaky Toys  |
| Oreo      | Silent Sneak | Laser Pointer  | Left Pawed   | Orange Tabby   | Squeaky Toys  |
| Cleo      | Night Vision | Fish Drone     | Right Pawed  | Sleek Black    | Warm Sunshine |
| Pumpkin   | Night Vision | Catnip Bomb    | Right Pawed  | Calico Patches | Crinkly Paper |
| Lucy      | Super Purr   | Fish Drone     | Left Pawed   | Calico Patches | Squeaky Toys  |
| Whiskers  | Super Purr   | Yarn Launcher  | Right Pawed  | Calico Patches | Squeaky Toys  |
| Smokey    | Night Vision | Yarn Launcher  | Left Pawed   | Calico Patches | Warm Sunshine |
| Mittens   | Wall Climb   | Feather Shield | Left Pawed   | Orange Tabby   | Squeaky Toys  |
| Boots     | Super Purr   | Catnip Bomb    | Right Pawed  | Sleek Black    | Warm Sunshine |
| Bella     | Super Purr   | Fish Drone     | Left Pawed   | Sleek Black    | Warm Sunshine |
| Loki      | Night Vision | Laser Pointer  | Right Pawed  | Orange Tabby   | Warm Sunshine |
| Simba     | Wall Climb   | Fish Drone     | Left Pawed   | Orange Tabby   | Warm Sunshine |
| Garfield  | Super Purr   | Fish Drone     | Right Pawed  | Calico Patches | Crinkly Paper |

## CLUE 1

## Subtraction

Detective Mittens counts the museum fish treats. Some are missing! Subtract the stolen ones to find a clue about the thief's gear.

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

|              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div>T</div> |
| 5996         | 8162        | 8774        | 2531        | 8848        | 2909        | 2909        | 6778        | 8848        | 8141        | 5965        | 4769        | 8774        | 5700        | 8141        | 4769        | 5996        |              |

  

|             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
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| 8279        | 5700        | 8774        | 6778        | 6008        | 8848        | 5700        | 8162        | 5965        | 6821        | 4769        | 8141        | 8774        |

$8285 - 2289 = \square \rightarrow \boxed{\text{T}}$

$8208 - 2508 = \square \rightarrow \boxed{\text{S}}$

$9992 - 3171 = \square \rightarrow \boxed{\text{R}}$

$13162 - 5000 = \square \rightarrow \boxed{\text{H}}$

$5278 - 2747 = \square \rightarrow \boxed{\text{V}}$

$5394 - 2485 = \square \rightarrow \boxed{\text{L}}$

$10434 - 4426 = \square \rightarrow \boxed{\text{F}}$

$6800 - 835 = \square \rightarrow \boxed{\text{D}}$

$11126 - 2847 = \square \rightarrow \boxed{\text{U}}$

$11613 - 4835 = \square \rightarrow \boxed{\text{A}}$

$11043 - 2195 = \square \rightarrow \boxed{\text{I}}$

$4932 - 163 = \square \rightarrow \boxed{\text{O}}$

$10665 - 1891 = \square \rightarrow \boxed{\text{E}}$

$9702 - 1561 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

## CLUE 2

A security camera scanned the thief's weight, but the screen is dusty. Round the weight to the nearest ten to unlock the next clue!

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

2900 110 430

900 2000 900 50 430 130 2900

370 430 200 2900

370 430 200 2900

50 700 90

50 290 300 7000 2900 900

Round 2,894 to the nearest hundred   $\rightarrow$  **T**

Round 433 to the nearest ten   $\rightarrow$  **E**

Round 181 to the nearest hundred   $\rightarrow$  **F**

Round 111 to the nearest ten   $\rightarrow$  **H**

Round 92 to the nearest ten   $\rightarrow$  **W**

Round 292 to the nearest ten  → **R**

Round 6,772 to the nearest thousand   $\rightarrow$  **N**

Round 890 to the nearest hundred   $\rightarrow$

Round 372 to the nearest ten   $\rightarrow$

Round 131 to the nearest ten  → **C**

Round 741 to the nearest hundred   $\rightarrow$  **A**

Round 1,996 to the nearest thousand   $\rightarrow$  **U**

Round 50 to the nearest ten   $\rightarrow$  **P**

Round 276 to the nearest hundred   $\rightarrow$

Scratch space:

### CLUE 3 Addition

The detective finds clues in the paw prints left in the sandbox. Add up all the muddy prints to see which paw the burglar used.

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

|              |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |      |
|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <div>T</div> | <div></div> | <div></div> | <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |      |
| 7921         | 9571        | 2798        | 7921         | 9571        | 4984        | 2798        | 7040        | 7040        | 2798        | 3431        | 3431        | 5371        | 2923        | 3431        | 2798        | 2798        | 2017 |
| <div></div>  | <div></div> | <div></div> | <div></div>  | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |      |
| 4984         | 6605        | 2923        | 5270         | 6605        | 2923        | 9571        | 4984        | 6605        | 2798        |             |             |             |             |             |             |             |      |

$4985 + 2936 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{T}}$

$1243 + 774 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{P}}$

$2135 + 2849 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{I}}$

$3369 + 3236 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{N}}$

$1509 + 1922 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{L}}$

$1610 + 1313 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{S}}$

$1952 + 3318 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{U}}$

$4410 + 2630 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{F}}$

$1942 + 3429 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{A}}$

$1837 + 961 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{E}}$

$4708 + 4863 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{H}}$

Scratch space:

**CLUE 4**
**Multiplication facts (1-12)**

The museum shelves hold rows of catnip cans. Multiply the rows by the cans in each row to find the thief's biggest weakness!

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

|          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| <b>W</b> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 8        | 27 | 9  | 63 | 72 | 44 | 18 | 63 | 54 | 32 | 44 | 55 | 27 | 30 | 32 | 28 | 28 | 110 |
|          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 9        | 72 | 54 | 32 | 30 | 30 | 84 | 27 | 99 | 64 | 27 | 44 | 27 |    |    |    |    |     |

$4 \times 2 = \square \rightarrow \boxed{\text{W}}$

$7 \times 4 = \square \rightarrow \boxed{\text{B}}$

$9 \times 1 = \square \rightarrow \boxed{\text{F}}$

$9 \times 3 = \square \rightarrow \boxed{\text{E}}$

$9 \times 8 = \square \rightarrow \boxed{\text{U}}$

$10 \times 3 = \square \rightarrow \boxed{\text{T}}$

$12 \times 7 = \square \rightarrow \boxed{\text{H}}$

$11 \times 5 = \square \rightarrow \boxed{\text{G}}$

$11 \times 10 = \square \rightarrow \boxed{\text{Y}}$

$9 \times 2 = \square \rightarrow \boxed{\text{D}}$

$11 \times 4 = \square \rightarrow \boxed{\text{N}}$

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

$4 \times 8 = \square \rightarrow \boxed{\text{A}}$

$8 \times 8 = \square \rightarrow \boxed{\text{C}}$

$7 \times 9 = \square \rightarrow \boxed{\text{O}}$

$9 \times 6 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

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

We have a pile of shiny collars to share equally among the suspect search groups. Divide them up to reveal the thief's fur color!

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:**

$110 \div 10 = \boxed{\phantom{00}}$

$90 \div 9 = \boxed{\phantom{00}}$

$84 \div 12 = \boxed{\phantom{00}}$

$96 \div 8 = \boxed{\phantom{00}}$

$40 \div 10 = \boxed{\phantom{00}}$

$72 \div 8 = \boxed{\phantom{00}}$

$40 \div 5 = \boxed{\phantom{00}}$

$7 \div 7 = \boxed{\phantom{00}}$

$12 \div 2 = \boxed{\phantom{00}}$

$24 \div 8 = \boxed{\phantom{00}}$

$55 \div 11 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain knocked over the giant milk jug, then scampered over the backyard fence.
2. The villain swiped the shiny golden fish trophy, then escaped out the tiny window.
3. The villain swiped the shiny golden fish trophy, then dashed into the dark alley.
4. The villain knocked over the giant milk jug, then climbed up the tall oak tree.
5. The villain unraveled the grand ball of yarn, then scratched the velvet couch.
6. The villain swiped the shiny golden fish trophy, then scampered over the backyard fence.
7. The villain stole the queen cat precious tiara, then escaped out the tiny window.
8. The villain swiped the shiny golden fish trophy, then scratched the velvet couch.
9. The villain stole the queen cat precious tiara, then climbed up the tall oak tree.
10. The villain unraveled the grand ball of yarn, then escaped out the tiny window.
11. The villain snatched the royal salmon treat, then scratched the velvet couch.
12. The villain stole the queen cat precious tiara, then scratched the velvet couch.

# Answer Key

## The Case of the Missing Golden Fish

### Culprit: Felix

Super Jump · Laser Pointer · Left Pawed · Orange Tabby · Warm Sunshine

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

### Clue 1 (Subtraction): "THE VILLAIN DOES NOT USE A FISH DRONE"

$8285 - 2289 = 5996$  (T) ·  $8208 - 2508 = 5700$  (S) ·  $9992 - 3171 = 6821$  (R) ·  $13162 - 5000 = 8162$  (H) ·  $5278 - 2747 = 2531$  (V) ·  $5394 - 2485 = 2909$  (L) ·  $10434 - 4426 = 6008$  (F) ·  $6800 - 835 = 5965$  (D) ·  $11126 - 2847 = 8279$  (U) ·  $11613 - 4835 = 6778$  (A) ·  $11043 - 2195 = 8848$  (I) ·  $4932 - 163 = 4769$  (O) ·  $10665 - 1891 = 8774$  (E) ·  $9702 - 1561 = 8141$  (N)

### Clue 2 (Rounding): "THE SUSPECT LEFT LEFT PAW PRINTS"

Round 2,894 to the nearest hundred = 2900 (T) · Round 433 to the nearest ten = 430 (E) · Round 181 to the nearest hundred = 200 (F) · Round 111 to the nearest ten = 110 (H) · Round 92 to the nearest ten = 90 (W) · Round 292 to the nearest ten = 290 (R) · Round 6,772 to the nearest thousand = 7000 (N) · Round 890 to the nearest hundred = 900 (S) · Round 372 to the nearest ten = 370 (L) · Round 131 to the nearest ten = 130 (C) · Round 741 to the nearest hundred = 700 (A) · Round 1,996 to the nearest thousand = 2000 (U) · Round 50 to the nearest ten = 50 (P) · Round 276 to the nearest hundred = 300 (I)

### Clue 3 (Addition): "THE THIEF FELL ASLEEP IN SUNSHINE"

$4985 + 2936 = 7921$  (T) ·  $1243 + 774 = 2017$  (P) ·  $2135 + 2849 = 4984$  (I) ·  $3369 + 3236 = 6605$  (N) ·  $1509 + 1922 = 3431$  (L) ·  $1610 + 1313 = 2923$  (S) ·  $1952 + 3318 = 5270$  (U) ·  $4410 + 2630 = 7040$  (F) ·  $1942 + 3429 = 5371$  (A) ·  $1837 + 961 = 2798$  (E) ·  $4708 + 4863 = 9571$  (H)

### Clue 4 (Multiplication facts (1-12)): "WE FOUND ORANGE TABBY FUR AT THE SCENE"

$4 \times 2 = 8$  (W) ·  $7 \times 4 = 28$  (B) ·  $9 \times 1 = 9$  (F) ·  $9 \times 3 = 27$  (E) ·  $9 \times 8 = 72$  (U) ·  $10 \times 3 = 30$  (T) ·  $12 \times 7 = 84$  (H) ·  $11 \times 5 = 55$  (G) ·  $11 \times 10 = 110$  (Y) ·  $9 \times 2 = 18$  (D) ·  $11 \times 4 = 44$  (N) ·  $11 \times 9 = 99$  (S) ·  $4 \times 8 = 32$  (A) ·  $8 \times 8 = 64$  (C) ·  $7 \times 9 = 63$  (O) ·  $9 \times 6 = 54$  (R)

### Clue 5 (Division facts (1-12)): surviving statement is box 2 → Felix

$110 \div 10 = 11$  ·  $90 \div 9 = 10$  ·  $84 \div 12 = 7$  ·  $96 \div 8 = 12$  ·  $40 \div 10 = 4$  ·  $72 \div 8 = 9$  ·  $40 \div 5 = 8$  ·  $7 \div 7 = 1$  ·  $12 \div 2 = 6$  ·  $24 \div 8 = 3$  ·  $55 \div 11 = 5$