



The Golden Tuna Heist

Grade 6 math · Place value, Multiplication, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ Date: _____

The golden can of premium tuna has been stolen from the safe at the Purrfect Tuna Fish Factory! Only a clever cat burglar could have pulled off this heist. Detective Kitten is on the case to find 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 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	ACTIVE PAW	FUR PATTERN	DISTRACTION
Simba	high jumping	fish launcher	left pawed	calico patch	crumpled paper
Bella	silent creeping	fish launcher	left pawed	sleek black	crumpled paper
Whiskers	wall climbing	catnip mist	right pawed	sleek black	crumpled paper
Tom	high jumping	laser pointer	right pawed	sleek black	crumpled paper
Cookie	laser dashing	yarn grappler	left pawed	sleek black	crumpled paper
Milo	super purring	bell silencer	left pawed	sleek black	warm sunlight
Oliver	wall climbing	bell silencer	right pawed	orange tabby	crumpled paper
Sylvester	silent creeping	bell silencer	left pawed	sleek black	crumpled paper
Smokey	silent creeping	catnip mist	left pawed	orange tabby	crumpled paper
Ziggy	wall climbing	laser pointer	left pawed	sleek black	squeaky mouse
Buster	high jumping	fish launcher	right pawed	calico patch	crumpled paper
Boots	silent creeping	bell silencer	right pawed	sleek black	squeaky mouse
Garfield	high jumping	fish launcher	left pawed	orange tabby	crumpled paper
Felix	silent creeping	bell silencer	left pawed	calico patch	crumpled paper
Shadow	wall climbing	fish launcher	left pawed	sleek black	squeaky mouse
Tiger	high jumping	laser pointer	left pawed	sleek black	crumpled paper
Chloe	super purring	catnip mist	left pawed	calico patch	crumpled paper
Luna	silent creeping	catnip mist	left pawed	sleek black	crumpled paper
Socks	laser dashing	catnip mist	left pawed	calico patch	warm sunlight
Gizmo	super purring	yarn grappler	right pawed	calico patch	squeaky mouse
Nala	laser dashing	yarn grappler	right pawed	orange tabby	crumpled paper

CLUE 1

The factory vault has a digital keypad. We examine the place value of the code digits to find the first clue.

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

A 2x10 grid of boxes. The first row contains the following values from left to right: 700 (with a 'T' marker), 900, 300, 10, 3000, 60, 60, 5000, 3000, 20, 100, 200, 300, 600, 20, 200, 700 (with a 'T' marker). The second row contains: 6000, 600, 300, 700 (with a 'T' marker), 900, 300, 50, 5000, 40, 20, 8000, 40, 5000, 7000, 7000, 60, 300, 40.

What is the value of the 7 in 98,788?

A diagram showing a mapping from an empty box to a box labeled 'T'. An arrow points from an empty box on the left to a box containing the letter 'T' on the right.

What is the value of the 7 in 637,081?



What is the value of the 5 in 405,238?

? → **A**

What is the value of the 4 in 86,849?

A diagram showing a box with an arrow pointing to a box labeled **R**.

What is the value of the 6 in 12,670?

A diagram showing a transition from an empty box to a box containing the letter S. The first box is empty, followed by a right-pointing arrow, and then a second box containing the letter 'S'.

What is the value of the 6 in 916,242?

A diagram illustrating a transformation. On the left is a rounded rectangle containing a question mark. An arrow points to the right, where a rounded rectangle contains the letter 'U'.

What is the value of the 9 in 22,944?

A diagram illustrating a transition. On the left is a rounded rectangle. An arrow points from this rectangle to another rounded rectangle on the right, which contains the letter 'H'.

What is the value of the 3 in 772,397?



What is the value of the 2 in 560,210?

? →

What is the value of the 1 in 39,719?

A diagram illustrating a transformation. On the left is a rounded rectangle containing a question mark. An arrow points to the right, where there is a rounded rectangle containing the letter 'V'.

What is the value of the 2 in 90,026?

A diagram showing a mapping from an empty box to a box labeled 'N'. An arrow points from an empty box on the left to a box containing the letter 'N' on the right.

What is the value of the 5 in 791,853?



What is the value of the 3 in 253,580?

? 

What is the value of the 6 in 57,465?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points to the right, where a more complex box is shown. This second box has a thick border and contains the letter 'L' in a bold, sans-serif font.

What is the value of the 1 in 923,179?

? → **D**

What is the value of the 8 in 628,353?

? → **G**

Scratch space:

CLUE 2

Multiplication facts (1-12)

We find stacks of fish crate boxes organized in rows. Multiplying the rows gives us a clue about the thief.

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

[illegible]

$10 \times 5 = \boxed{} \rightarrow \boxed{\text{T}}$

$3 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$6 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$5 \times 9 = \boxed{} \rightarrow \boxed{\text{C}}$

$$10 \times 4 = \boxed{} \rightarrow \boxed{\text{L}}$$

$3 \times 7 = \boxed{} \rightarrow \boxed{\text{P}}$

$10 \times 7 = \boxed{} \rightarrow \boxed{\text{H}}$

$$5 \times 2 = \boxed{} \rightarrow \boxed{1}$$

$10 \times 12 = \boxed{} \rightarrow \boxed{\text{U}}$

$11 \times 1 = \boxed{} \rightarrow \boxed{\text{F}}$

$$1 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$5 \times 7 = \boxed{} \rightarrow \boxed{\text{E}}$$

$11 \times 12 = \boxed{} \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 3

We count the spilled toy mice on the floor. Adding them all up reveals another piece of evidence.

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

Diagram illustrating a sequence of numbers and their corresponding positions (represented by boxes). The sequence is divided into two rows.

Top Row (Left to Right):

- Box 1: T (Orange)
- Box 2: (Empty)
- Box 3: (Empty)
- Box 4: (Empty)
- Box 5: (Empty)
- Box 6: (Empty)
- Box 7: (Empty)
- Box 8: (Empty)
- Box 9: (Empty)
- Box 10: (Empty)
- Box 11: (Empty)
- Box 12: (Empty)
- Box 13: (Empty)
- Box 14: (Empty)
- Box 15: T (Orange)

Bottom Row (Left to Right):

- Box 1: (Empty)
- Box 2: (Empty)
- Box 3: (Empty)
- Box 4: (Empty)
- Box 5: (Empty)
- Box 6: T (Orange)
- Box 7: (Empty)
- Box 8: (Empty)
- Box 9: (Empty)
- Box 10: (Empty)
- Box 11: (Empty)
- Box 12: (Empty)
- Box 13: (Empty)
- Box 14: (Empty)
- Box 15: (Empty)

Numbers associated with the boxes (Top Row to Bottom Row):

- 5403, 5979, 6071, 8169, 8535, 4706, 4706, 5149, 8535, 3357, 5345, 5149, 3357, 3357, 2510, 5403
- 3152, 6071, 4351, 8535, 4351, 5403, 5345, 3152, 9833, 6480, 5430, 4706, 6071, 4324, 5430, 5149, 5430, 6071, 3152

$$3596 + 1807 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1745 + 1407 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2791 + 1560 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4823 + 5010 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1780 + 1577 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2313 + 3666 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$3697 + 4838 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$1640 + 3066 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2102 + 3047 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2136 + 2188 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$4089 + 1982 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2159 + 3186 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$1499 + 1011 = \boxed{} \rightarrow \boxed{0}$$

$$3297 + 3183 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$2423 + 3007 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$4776 + 3393 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

Scratch space:

CLUE 4

Subtraction

The thief took some catnip bags from the shelf. Subtracting the missing bags from the total shows us a new clue.

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

L							L					L							
4947	1555	1555	2246	1526	2246	4947	1526	1526	8536	2805	4947	5480	4191	8536	6241	5502	4641		
						L													
5148	5480	2246	4947	1526	6241	5013	2805	1526	3783	7802	2740	5459							

$8387 - 3440 = \square \rightarrow \boxed{\text{L}}$

$10712 - 4471 = \square \rightarrow \boxed{\text{F}}$

$6320 - 3580 = \square \rightarrow \boxed{\text{N}}$

$3182 - 1627 = \square \rightarrow \boxed{\text{O}}$

$4459 - 2213 = \square \rightarrow \boxed{\text{S}}$

$7156 - 2008 = \square \rightarrow \boxed{\text{W}}$

$3466 - 1940 = \square \rightarrow \boxed{\text{E}}$

$8436 - 2934 = \square \rightarrow \boxed{\text{U}}$

$6370 - 3565 = \square \rightarrow \boxed{\text{B}}$

$9940 - 2138 = \square \rightarrow \boxed{\text{I}}$

$6930 - 2739 = \square \rightarrow \boxed{\text{C}}$

$6767 - 2984 = \square \rightarrow \boxed{\text{H}}$

$10181 - 1645 = \square \rightarrow \boxed{\text{K}}$

$6703 - 1223 = \square \rightarrow \boxed{\text{A}}$

$9045 - 3586 = \square \rightarrow \boxed{\text{D}}$

$7374 - 2733 = \square \rightarrow \boxed{\text{R}}$

$6850 - 1837 = \square \rightarrow \boxed{\text{T}}$

Scratch space:

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

We divide a pile of golden fish biscuits equally among the witness kittens to hear their final clue.

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:

$55 \div 11 = \square$

$36 \div 9 = \square$

$12 \div 4 = \square$

$24 \div 2 = \square$

$8 \div 1 = \square$

$60 \div 6 = \square$

$77 \div 7 = \square$

$4 \div 2 = \square$

$99 \div 11 = \square$

$6 \div 6 = \square$

$66 \div 11 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain climbs up the brick wall, then sprays a cloud of catnip mist.
2. The villain dashes through the laser grid, then escapes using a yarn grapppler.
3. The villain jumps over the high fence, then shines a distracting laser pointer.
4. The villain creeps past the sleeping guard dog, then quiets their collar with a bell silencer.
5. The villain creeps past the sleeping guard dog, then creates a distraction with a fish launcher.
6. The villain jumps over the high fence, then sprays a cloud of catnip mist.
7. The villain creeps past the sleeping guard dog, then sprays a cloud of catnip mist.
8. The villain purrs to disable the alarm, then quiets their collar with a bell silencer.
9. The villain dashes through the laser grid, then sprays a cloud of catnip mist.
10. The villain purrs to disable the alarm, then shines a distracting laser pointer.
11. The villain dashes through the laser grid, then creates a distraction with a fish launcher.
12. The villain jumps over the high fence, then creates a distraction with a fish launcher.

Answer Key

The Golden Tuna Heist

Culprit: Luna

silent creeping · catnip mist · left pawed · sleek black · crumpled paper

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE THE YARN GRAPPLER"

What is the value of the 7 in 98,788? = 700 (T) · What is the value of the 7 in 637,081? = 7000 (P) · What is the value of the 5 in 405,238? = 5000 (A) · What is the value of the 4 in 86,849? = 40 (R) · What is the value of the 6 in 12,670? = 600 (S) · What is the value of the 6 in 916,242? = 6000 (U) · What is the value of the 9 in 22,944? = 900 (H) · What is the value of the 3 in 772,397? = 300 (E) · What is the value of the 2 in 560,210? = 200 (O) · What is the value of the 1 in 39,719? = 10 (V) · What is the value of the 2 in 90,026? = 20 (N) · What is the value of the 5 in 791,853? = 50 (Y) · What is the value of the 3 in 253,580? = 3000 (I) · What is the value of the 6 in 57,465? = 60 (L) · What is the value of the 1 in 923,179? = 100 (D) · What is the value of the 8 in 628,353? = 8000 (G)

Clue 2 (Multiplication facts (1-12)): "THE CULPRIT SWIPES WITH THE LEFT PAW"

$10 \times 5 = 50$ (T) · $3 \times 12 = 36$ (W) · $6 \times 8 = 48$ (S) · $5 \times 9 = 45$ (C) · $10 \times 4 = 40$ (L) · $3 \times 7 = 21$ (P) · $10 \times 7 = 70$ (H) · $5 \times 2 = 10$ (I) · $10 \times 12 = 120$ (U) · $11 \times 1 = 11$ (F) · $1 \times 9 = 9$ (R) · $5 \times 7 = 35$ (E) · $11 \times 12 = 132$ (A)

Clue 3 (Addition): "THE VILLAIN CANNOT RESIST CRUMPLED PAPER"

$3596 + 1807 = 5403$ (T) · $1745 + 1407 = 3152$ (R) · $2791 + 1560 = 4351$ (S) · $4823 + 5010 = 9833$ (U) · $1780 + 1577 = 3357$ (N) · $2313 + 3666 = 5979$ (H) · $3697 + 4838 = 8535$ (I) · $1640 + 3066 = 4706$ (L) · $2102 + 3047 = 5149$ (A) · $2136 + 2188 = 4324$ (D) · $4089 + 1982 = 6071$ (E) · $2159 + 3186 = 5345$ (C) · $1499 + 1011 = 2510$ (O) · $3297 + 3183 = 6480$ (M) · $2423 + 3007 = 5430$ (P) · $4776 + 3393 = 8169$ (V)

Clue 4 (Subtraction): "LOOSE SLEEK BLACK FUR WAS LEFT BEHIND"

$8387 - 3440 = 4947$ (L) · $10712 - 4471 = 6241$ (F) · $6320 - 3580 = 2740$ (N) · $3182 - 1627 = 1555$ (O) · $4459 - 2213 = 2246$ (S) · $7156 - 2008 = 5148$ (W) · $3466 - 1940 = 1526$ (E) · $8436 - 2934 = 5502$ (U) · $6370 - 3565 = 2805$ (B) · $9940 - 2138 = 7802$ (I) · $6930 - 2739 = 4191$ (C) · $6767 - 2984 = 3783$ (H) · $10181 - 1645 = 8536$ (K) · $6703 - 1223 = 5480$ (A) · $9045 - 3586 = 5459$ (D) · $7374 - 2733 = 4641$ (R) · $6850 - 1837 = 5013$ (T)

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

$55 \div 11 = 5$ · $36 \div 9 = 4$ · $12 \div 4 = 3$ · $24 \div 2 = 12$ · $8 \div 1 = 8$ · $60 \div 6 = 10$ · $77 \div 7 = 11$ · $4 \div 2 = 2$ · $99 \div 11 = 9$ · $6 \div 6 = 1$ · $66 \div 11 = 6$