



The Mystery of the Golden Tuna

Grade 5 math · Place value, Multiplication, Skip counting, Fractions of a number, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone swiped the Golden Tuna Trophy right before the big Whisker City pet show! Detective Paws must analyze the evidence to catch the sneaky thief.

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 Mischievous Moggy is _____

Possible suspects

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

NAME	SPECIAL MOVE	ESCAPE TRICK	DOMINANT PAW	COAT PATTERN	DISTRACTION
Shadow Pounce	Laser Leap	Claw Climb	Right Pawed	Tuxedo Coat	Laser Light
Luna Furry	Catnip Blast	Claw Climb	Right Pawed	Tuxedo Coat	Squeaky Mouse
Nala Purr	Sonic Meow	Furball Roll	Right Pawed	Calico Coat	Laser Light
Bella Meowser	Sonic Meow	Yarn Grapple	Right Pawed	Tuxedo Coat	Laser Light
Peanut Whiskers	Sonic Meow	Tail Whip	Left Pawed	Tuxedo Coat	Crinkle Paper
Oliver Scratch	Shadow Sneak	Claw Climb	Right Pawed	Tabby Coat	Laser Light
Chloe Fuzzy	Catnip Blast	Tail Whip	Left Pawed	Tuxedo Coat	Laser Light
Hazel Calico	Laser Leap	Silent Tread	Right Pawed	Tabby Coat	Crinkle Paper
Buster Paws	Laser Leap	Silent Tread	Right Pawed	Tuxedo Coat	Laser Light
Jasper Claws	Laser Leap	Furball Roll	Left Pawed	Tabby Coat	Squeaky Mouse
Sophie Whisker	Catnip Blast	Tail Whip	Left Pawed	Calico Coat	Laser Light
Cleo Pawford	Laser Leap	Yarn Grapple	Right Pawed	Tabby Coat	Crinkle Paper
Smokey Pounce	Super Pounce	Claw Climb	Left Pawed	Tuxedo Coat	Laser Light
Penny Fluff	Catnip Blast	Tail Whip	Right Pawed	Tuxedo Coat	Crinkle Paper
Felix Purrson	Sonic Meow	Claw Climb	Right Pawed	Tabby Coat	Crinkle Paper
Boots Clawson	Sonic Meow	Silent Tread	Left Pawed	Tuxedo Coat	Laser Light
Daisy Tail	Shadow Sneak	Claw Climb	Left Pawed	Calico Coat	Laser Light
Milo Mousington	Catnip Blast	Tail Whip	Right Pawed	Tuxedo Coat	Laser Light
Pepper Paws	Catnip Blast	Claw Climb	Left Pawed	Tabby Coat	Squeaky Mouse
Mittens McPhee	Sonic Meow	Tail Whip	Right Pawed	Tuxedo Coat	Laser Light
Barnaby Whiskers	Shadow Sneak	Silent Tread	Left Pawed	Tuxedo Coat	Squeaky Mouse

CLUE 1 Place value

The detective checked the security lock keypad to see which digits were typed.

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

T									T										
90	5000	70	300	40	30	50	80	200	90	20	200	20	4000	60	90	40	2000	70	
700	3000	80	4000	1000	80	3000	50	50	30	70									

What is the value of the 9 in 43,190?

 → **T**

What is the value of the 3 in 843,482?

 → **A**

What is the value of the 1 in 21,089?

 → **G**

What is the value of the 8 in 24,084?

 → **R**

What is the value of the 4 in 737,149?

 → **U**

What is the value of the 4 in 534,329?

 → **N**

What is the value of the 2 in 553,253?

 → **I**

What is the value of the 7 in 15,705?

 → **Y**

What is the value of the 3 in 216,832?

 → **L**

What is the value of the 2 in 43,025?

 → **D**

What is the value of the 5 in 745,024?

 → **H**

What is the value of the 3 in 72,319?

 → **C**

What is the value of the 6 in 31,169?

 → **O**

What is the value of the 7 in 682,575?

 → **E**

What is the value of the 5 in 469,157?

 → **P**

What is the value of the 2 in 92,030?

 → **S**

Scratch space:

CLUE 2

Multiplication facts (1-12)

The detective counted the treat boxes stacked in rows along the shelf.

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

T											T				T	
81	30	54	80	22	54	99	63	50	16	99	81	35	54	42	81	99

				T								T
14	132	120	30	81	64	99	88	64	14	132	22	81

$9 \times 9 = \square \rightarrow \boxed{\text{T}}$

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

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

$7 \times 2 = \square \rightarrow \boxed{\text{R}}$

$10 \times 12 = \square \rightarrow \boxed{\text{G}}$

$5 \times 10 = \square \rightarrow \boxed{\text{Y}}$

$2 \times 11 = \square \rightarrow \boxed{\text{N}}$

$6 \times 7 = \square \rightarrow \boxed{\text{F}}$

$8 \times 10 = \square \rightarrow \boxed{\text{S}}$

$11 \times 12 = \square \rightarrow \boxed{\text{I}}$

$4 \times 4 = \square \rightarrow \boxed{\text{C}}$

$11 \times 8 = \square \rightarrow \boxed{\text{W}}$

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

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

$5 \times 7 = \square \rightarrow \boxed{\text{L}}$

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

Scratch space:

CLUE 3 Skip counting

The detective tracked the paw prints left at set intervals down the hall.

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

T																		
120	65	130	15	18	12	12	27	18	33	70	27	16	16	6	27	30	130	22
24	25	27	12	27	16	130	30	12	18	8	65	120						

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **B**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **N**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **C**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 → **I**

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **W**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **G**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **L**

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **V**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **Y**

Scratch space:

CLUE 4
Fractions of a number

The detective measured how much of the milk bowl was lapped up.

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

T					T			T									
5	12	19	8	19	5	19	16	5	39	40	19	9	32	11	21	8	

T										T	T							
5	11	17	19	8	32	9	11	3	36	5	5	12	19	22	16	19	21	19

$2/4 \text{ of } 10 = \square \rightarrow \boxed{\text{T}}$

$1/5 \text{ of } 80 = \square \rightarrow \boxed{\text{C}}$

$1/6 \text{ of } 102 = \square \rightarrow \boxed{\text{X}}$

$1/4 \text{ of } 36 = \square \rightarrow \boxed{\text{F}}$

$4/5 \text{ of } 10 = \square \rightarrow \boxed{\text{D}}$

$7/8 \text{ of } 24 = \square \rightarrow \boxed{\text{N}}$

$4/8 \text{ of } 38 = \square \rightarrow \boxed{\text{E}}$

$1/4 \text{ of } 44 = \square \rightarrow \boxed{\text{U}}$

$1/4 \text{ of } 144 = \square \rightarrow \boxed{\text{A}}$

$1/3 \text{ of } 96 = \square \rightarrow \boxed{\text{O}}$

$2/4 \text{ of } 78 = \square \rightarrow \boxed{\text{I}}$

$1/2 \text{ of } 44 = \square \rightarrow \boxed{\text{S}}$

$1/4 \text{ of } 12 = \square \rightarrow \boxed{\text{R}}$

$4/6 \text{ of } 18 = \square \rightarrow \boxed{\text{H}}$

$2/8 \text{ of } 160 = \square \rightarrow \boxed{\text{V}}$

Scratch space:

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

The detective split the evidence files into equal piles for the team.

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:

$45 \div 9 = \boxed{}$

$12 \div 12 = \boxed{}$

$63 \div 7 = \boxed{}$

$54 \div 9 = \boxed{}$

$110 \div 11 = \boxed{}$

$55 \div 5 = \boxed{}$

$120 \div 10 = \boxed{}$

$24 \div 12 = \boxed{}$

$70 \div 10 = \boxed{}$

$4 \div 1 = \boxed{}$

$3 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted catnip into the hallway, then whipped their tail to knock over cans.
2. The villain sneaked through the shadows silently, then walked away with a silent tread.
3. The villain pounced straight over the counter, then rolled away inside a huge furball.
4. The villain meowed a sonic boom through the doors, then swung off the chandelier using yarn.
5. The villain meowed a sonic boom through the doors, then whipped their tail to knock over cans.
6. The villain blasted catnip into the hallway, then walked away with a silent tread.
7. The villain leaped across the room with a laser leap, then whipped their tail to knock over cans.
8. The villain leaped across the room with a laser leap, then climbed up the curtains with sharp claws.
9. The villain leaped across the room with a laser leap, then walked away with a silent tread.
10. The villain pounced straight over the counter, then walked away with a silent tread.
11. The villain pounced straight over the counter, then swung off the chandelier using yarn.
12. The villain leaped across the room with a laser leap, then rolled away inside a huge furball.

Answer Key

The Mystery of the Golden Tuna

Culprit: Shadow Pounce

Laser Leap · Claw Climb · Right Pawed · Tuxedo Coat · Laser Light

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE CULPRIT DID NOT USE YARN GRAPPLE"

What is the value of the 9 in 43,190? = 90 (T) · What is the value of the 3 in 843,482? = 3000 (A) · What is the value of the 1 in 21,089? = 1000 (G) · What is the value of the 8 in 24,084? = 80 (R) · What is the value of the 4 in 737,149? = 40 (U) · What is the value of the 4 in 534,329? = 4000 (N) · What is the value of the 2 in 553,253? = 200 (I) · What is the value of the 7 in 15,705? = 700 (Y) · What is the value of the 3 in 216,832? = 30 (L) · What is the value of the 2 in 43,025? = 20 (D) · What is the value of the 5 in 745,024? = 5000 (H) · What is the value of the 3 in 72,319? = 300 (C) · What is the value of the 6 in 31,169? = 60 (O) · What is the value of the 7 in 682,575? = 70 (E) · What is the value of the 5 in 469,157? = 50 (P) · What is the value of the 2 in 92,030? = 2000 (S)

Clue 2 (Multiplication facts (1-12)): "THE SNEAKY CAT LEFT A RIGHT PAW PRINT"

$9 \times 9 = 81$ (T) · $9 \times 7 = 63$ (K) · $10 \times 3 = 30$ (H) · $7 \times 2 = 14$ (R) · $10 \times 12 = 120$ (G) · $5 \times 10 = 50$ (Y) · $2 \times 11 = 22$ (N) · $6 \times 7 = 42$ (F) · $8 \times 10 = 80$ (S) · $11 \times 12 = 132$ (I) · $4 \times 4 = 16$ (C) · $11 \times 8 = 88$ (W) · $6 \times 9 = 54$ (E) · $8 \times 8 = 64$ (P) · $5 \times 7 = 35$ (L) · $11 \times 9 = 99$ (A)

Clue 3 (Skip counting): "THE VILLAIN WAS SCARED BY A LASER LIGHT"

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

Clue 4 (Fractions of a number): "THE DETECTIVE FOUND TUXEDO FUR AT THE SCENE"

$\frac{2}{4}$ of 10 = 5 (T) · $\frac{1}{5}$ of 80 = 16 (C) · $\frac{1}{6}$ of 102 = 17 (X) · $\frac{1}{4}$ of 36 = 9 (F) · $\frac{4}{5}$ of 10 = 8 (D) · $\frac{7}{8}$ of 24 = 21 (N) · $\frac{4}{8}$ of 38 = 19 (E) · $\frac{1}{4}$ of 44 = 11 (U) · $\frac{1}{4}$ of 144 = 36 (A) · $\frac{1}{3}$ of 96 = 32 (O) · $\frac{2}{4}$ of 78 = 39 (I) · $\frac{1}{2}$ of 44 = 22 (S) · $\frac{1}{4}$ of 12 = 3 (R) · $\frac{4}{6}$ of 18 = 12 (H) · $\frac{2}{8}$ of 160 = 40 (V)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Shadow Pounce

$45 \div 9 = 5$ · $12 \div 12 = 1$ · $63 \div 7 = 9$ · $54 \div 9 = 6$ · $110 \div 11 = 10$ · $55 \div 5 = 11$ · $120 \div 10 = 12$ · $24 \div 12 = 2$ · $70 \div 10 = 7$ · $4 \div 1 = 4$ · $3 \div 1 = 3$