



The Case of the Missing Golden Anchovy

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ Date: _____

The Golden Anchovy has been swiped from the Mewplex Museum! The Head Curator is in a panic. Only a clever detective can track down the sneaky 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	HABIT	FUR PATTERN	DISTRACTION
Oliver	wall climbing	catnip bomb	wears a bell	striped tabby	cardboard box
Garfield	silent stalking	feather wand	wears a bell	calico patches	scratching post
Buster	wall climbing	laser pointer	no bell worn	calico patches	cardboard box
Mittens	laser chasing	yarn launcher	no bell worn	striped tabby	cardboard box
Smokey	wall climbing	squeaky mouse	wears a bell	striped tabby	scratching post
Ziggy	silent stalking	squeaky mouse	no bell worn	solid black	cardboard box
Felix	super purring	feather wand	no bell worn	calico patches	cardboard box
Tom	high jumping	catnip bomb	no bell worn	calico patches	cardboard box
Peanut	high jumping	catnip bomb	no bell worn	striped tabby	scratching post
Whiskers	silent stalking	yarn launcher	wears a bell	striped tabby	tuna flakes
Morris	super purring	feather wand	no bell worn	striped tabby	scratching post
Gizmo	super purring	yarn launcher	wears a bell	striped tabby	scratching post
Bella	silent stalking	feather wand	wears a bell	solid black	cardboard box
Sylvester	silent stalking	yarn launcher	wears a bell	calico patches	cardboard box
Luna	silent stalking	yarn launcher	no bell worn	striped tabby	cardboard box
Fluffy	laser chasing	catnip bomb	wears a bell	calico patches	tuna flakes
Milo	super purring	laser pointer	wears a bell	solid black	cardboard box
Socks	silent stalking	laser pointer	wears a bell	striped tabby	scratching post
Nala	super purring	feather wand	wears a bell	striped tabby	scratching post
Simba	silent stalking	squeaky mouse	no bell worn	calico patches	cardboard box
Rusty	high jumping	catnip bomb	wears a bell	striped tabby	scratching post

CLUE 1

Fractions of a number

We found a torn bag of kitty treats. The thief ate a fraction of the treats inside. Help us count how many are left to narrow down the gear they left behind!

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

T					T							T				
18	9	29	6	24	18	25	21	29	31	4	21	18	26	31	29	24
28	24	36	4	2	24	26	4	6	9	29	36					

$1/2 \text{ of } 36 = \square \rightarrow \boxed{\text{T}}$

$3/5 \text{ of } 40 = \square \rightarrow \boxed{\text{A}}$

$2/3 \text{ of } 6 = \square \rightarrow \boxed{\text{N}}$

$4/8 \text{ of } 42 = \square \rightarrow \boxed{\text{O}}$

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

$1/4 \text{ of } 112 = \square \rightarrow \boxed{\text{Y}}$

$1/5 \text{ of } 125 = \square \rightarrow \boxed{\text{D}}$

$2/3 \text{ of } 9 = \square \rightarrow \boxed{\text{C}}$

$1/3 \text{ of } 87 = \square \rightarrow \boxed{\text{E}}$

$6/10 \text{ of } 60 = \square \rightarrow \boxed{\text{R}}$

$2/6 \text{ of } 93 = \square \rightarrow \boxed{\text{S}}$

$2/8 \text{ of } 36 = \square \rightarrow \boxed{\text{H}}$

$1/2 \text{ of } 52 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 2 Order of operations

To unlock the security camera footage, we need to solve the keypad puzzle. Solve these steps in the exact order to see if the thief wore a collar bell.

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

T									T								
34	20	78	12	66	12	68	78	63	34	63	65	79	53	44	78	47	36

T													
34	79	53	27	63	23	65	65	36	45	32	78	65	65

$7 \times 8 - 22 = \square \rightarrow$ T	$8 \times 11 - 22 = \square \rightarrow$ U	$6 \times 9 - 1 = \square \rightarrow$ N
$4 + 2 \times 4 = \square \rightarrow$ S	$32 + 9 \times 4 = \square \rightarrow$ P	$57 + 2 \times 3 = \square \rightarrow$ C
$5 \times 9 - 22 = \square \rightarrow$ O	$8 \times 7 - 20 = \square \rightarrow$ A	$33 + 7 \times 2 = \square \rightarrow$ D
$10 \times 4 - 20 = \square \rightarrow$ H	$8 \times 7 - 29 = \square \rightarrow$ Y	$5 \times 10 - 18 = \square \rightarrow$ B
$17 + 4 \times 7 = \square \rightarrow$ R	$9 \times 9 - 2 = \square \rightarrow$ I	$28 + 4 \times 4 = \square \rightarrow$ K
$49 + 8 \times 2 = \square \rightarrow$ L	$58 + 4 \times 5 = \square \rightarrow$ E	

Scratch space:

CLUE 3

Multiplication facts (1-12)

The thief knocked over stacks of canned salmon. If there are several equal rows of cans, we can count the total to find what distracted the thief!

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

T														T		
15	24	45	6	21	45	36	21	99	11	1	80	21	15			
					T						T					
25	45	50	77	50	15	9	50	36	25	9	15	36	24	77	80	30
			T													
55	21	50	15													

$3 \times 5 = \square \rightarrow \boxed{\text{T}}$

$3 \times 12 = \square \rightarrow \boxed{\text{C}}$

$5 \times 9 = \square \rightarrow \boxed{\text{E}}$

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

$3 \times 3 = \square \rightarrow \boxed{\text{A}}$

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

$7 \times 11 = \square \rightarrow \boxed{\text{I}}$

$5 \times 5 = \square \rightarrow \boxed{\text{R}}$

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

$7 \times 3 = \square \rightarrow \boxed{\text{O}}$

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

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

$1 \times 1 = \square \rightarrow \boxed{\text{D}}$

$1 \times 6 = \square \rightarrow \boxed{\text{F}}$

$1 \times 11 = \square \rightarrow \boxed{\text{L}}$

$6 \times 4 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 4 Rounding

The getaway scale shows a fuzzy weight because of dirt. The scale always rounds to the nearest ten. Round the number to find the thief's fur type.

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

W																			
50	170	3000	290	300	370	1300	1700	500	110	2300	200	170	1300	500	900	4300	4300	430	
3000	300	110	290	370	500	90	170	20	90	900	2300	110							

Round 53 to the nearest ten → **W**

Round 369 to the nearest ten → **N**

Round 856 to the nearest hundred → **A**

Round 110 to the nearest ten → **R**

Round 4,325 to the nearest hundred → **B**

Round 480 to the nearest hundred → **T**

Round 2,267 to the nearest hundred → **I**

Round 291 to the nearest ten → **O**

Round 283 to the nearest hundred → **U**

Round 191 to the nearest hundred → **P**

Round 91 to the nearest ten → **H**

Round 1,287 to the nearest hundred → **D**

Round 429 to the nearest ten → **Y**

Round 18 to the nearest ten → **C**

Round 1,715 to the nearest hundred → **S**

Round 168 to the nearest ten → **E**

Round 2,674 to the nearest thousand → **F**

Scratch space:

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

The detective assistants need to share the leftover milk cartons equally. Divide them up to find the final secret!

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:

$56 \div 8 = \boxed{}$

$18 \div 9 = \boxed{}$

$6 \div 1 = \boxed{}$

$88 \div 11 = \boxed{}$

$2 \div 2 = \boxed{}$

$40 \div 4 = \boxed{}$

$18 \div 6 = \boxed{}$

$72 \div 6 = \boxed{}$

$55 \div 11 = \boxed{}$

$8 \div 2 = \boxed{}$

$121 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain leaps over the high fence, then waves a colorful feather wand.
2. The villain leaps over the high fence, then drops a smelly catnip bomb.
3. The villain zooms after a red dot, then flashes a bright laser pointer.
4. The villain scales the brick wall easily, then flashes a bright laser pointer.
5. The villain zooms after a red dot, then shoots a sticky yarn launcher.
6. The villain sneaks through the doggy door, then flashes a bright laser pointer.
7. The villain scales the brick wall easily, then winds up a squeaky toy mouse.
8. The villain sneaks through the doggy door, then shoots a sticky yarn launcher.
9. The villain purrs loudly to confuse guards, then waves a colorful feather wand.
10. The villain sneaks through the doggy door, then drops a smelly catnip bomb.
11. The villain zooms after a red dot, then drops a smelly catnip bomb.
12. The villain purrs loudly to confuse guards, then drops a smelly catnip bomb.

Answer Key

The Case of the Missing Golden Anchovy

Culprit: Nala

super purring · feather wand · wears a bell · striped tabby · scratching post

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE CAT DOES NOT USE A YARN LAUNCHER"

$\frac{1}{2}$ of 36 = 18 (T) · $\frac{3}{5}$ of 40 = 24 (A) · $\frac{2}{3}$ of 6 = 4 (N) · $\frac{4}{8}$ of 42 = 21 (O) · $\frac{4}{8}$ of 4 = 2 (L) · $\frac{1}{4}$ of 112 = 28 (Y) · $\frac{1}{5}$ of 125 = 25 (D) · $\frac{2}{3}$ of 9 = 6 (C) · $\frac{1}{3}$ of 87 = 29 (E) · $\frac{6}{10}$ of 60 = 36 (R) · $\frac{2}{6}$ of 93 = 31 (S) · $\frac{2}{8}$ of 36 = 9 (H) · $\frac{1}{2}$ of 52 = 26 (U)

Clue 2 (Order of operations): "THE SUSPECT CLINKED A TINY COLLAR BELL"

$7 \times 8 - 22 = 34$ (T) · $8 \times 11 - 22 = 66$ (U) · $6 \times 9 - 1 = 53$ (N) · $4 + 2 \times 4 = 12$ (S) · $32 + 9 \times 4 = 68$ (P) · $57 + 2 \times 3 = 63$ (C) · $5 \times 9 - 22 = 23$ (O) · $8 \times 7 - 20 = 36$ (A) · $33 + 7 \times 2 = 47$ (D) · $10 \times 4 - 20 = 20$ (H) · $8 \times 7 - 29 = 27$ (Y) · $5 \times 10 - 18 = 32$ (B) · $17 + 4 \times 7 = 45$ (R) · $9 \times 9 - 2 = 79$ (I) · $28 + 4 \times 4 = 44$ (K) · $49 + 8 \times 2 = 65$ (L) · $58 + 4 \times 5 = 78$ (E)

Clue 3 (Multiplication facts (1-12)): "THE FOE COULD NOT RESIST A SCRATCHING POST"

$3 \times 5 = 15$ (T) · $3 \times 12 = 36$ (C) · $5 \times 9 = 45$ (E) · $5 \times 11 = 55$ (P) · $3 \times 3 = 9$ (A) · $8 \times 10 = 80$ (N) · $7 \times 11 = 77$ (I) · $5 \times 5 = 25$ (R) · $3 \times 10 = 30$ (G) · $7 \times 3 = 21$ (O) · $11 \times 9 = 99$ (U) · $5 \times 10 = 50$ (S) · $1 \times 1 = 1$ (D) · $1 \times 6 = 6$ (F) · $1 \times 11 = 11$ (L) · $6 \times 4 = 24$ (H)

Clue 4 (Rounding): "WE FOUND STRIPED TABBY FUR ON THE CHAIR"

Round 53 to the nearest ten = 50 (W) · Round 369 to the nearest ten = 370 (N) · Round 856 to the nearest hundred = 900 (A) · Round 110 to the nearest ten = 110 (R) · Round 4,325 to the nearest hundred = 4300 (B) · Round 480 to the nearest hundred = 500 (T) · Round 2,267 to the nearest hundred = 2300 (I) · Round 291 to the nearest ten = 290 (O) · Round 283 to the nearest hundred = 300 (U) · Round 191 to the nearest hundred = 200 (P) · Round 91 to the nearest ten = 90 (H) · Round 1,287 to the nearest hundred = 1300 (D) · Round 429 to the nearest ten = 430 (Y) · Round 18 to the nearest ten = 20 (C) · Round 1,715 to the nearest hundred = 1700 (S) · Round 168 to the nearest ten = 170 (E) · Round 2,674 to the nearest thousand = 3000 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Nala

$56 \div 8 = 7$ · $18 \div 9 = 2$ · $6 \div 1 = 6$ · $88 \div 11 = 8$ · $2 \div 2 = 1$ · $40 \div 4 = 10$ · $18 \div 6 = 3$ · $72 \div 6 = 12$ · $55 \div 11 = 5$ · $8 \div 2 = 4$ · $121 \div 11 = 11$