



The Great Catnip Caper

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

Detective: _____ Date: _____

Someone has stolen the legendary Golden Catnip Mouse from the Purrfect Palace Museum! The curator, Mr. Barnaby, needs your help. Look at the clues to find the sneaky feline who did it!

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 the Cat Thief 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 TOY	FUR PATTERN	DISTRACTION
Patches	Door Knob Twist	Yarn Ball Grapple	Silver Bell Collar	Tabby Stripes	Squeaky Toy
Ginger	Door Knob Twist	Fish Bone Lockpick	Silver Bell Collar	Calico Patches	Crinkly Paper
Cleo	Super Sonic Meow	Catnip Smoke Bomb	Gold Bell Collar	Calico Patches	Shaken Treat Can
Sylvester	Super Sonic Meow	Fish Bone Lockpick	Gold Bell Collar	Tabby Stripes	Squeaky Toy
Lola	Super Sonic Meow	Fish Bone Lockpick	Silver Bell Collar	Tabby Stripes	Shaken Treat Can
Fluffy	High-Shelf Leap	Catnip Smoke Bomb	Silver Bell Collar	Calico Patches	Shaken Treat Can
Mittens	Silent Prowl	Fish Bone Lockpick	Silver Bell Collar	Calico Patches	Squeaky Toy
Smokey	Silent Prowl	Fish Bone Lockpick	Gold Bell Collar	Tabby Stripes	Shaken Treat Can
Oliver	Silent Prowl	Feather Wand Glider	Silver Bell Collar	Tabby Stripes	Crinkly Paper
Boots	Super Sonic Meow	Fish Bone Lockpick	Gold Bell Collar	Tabby Stripes	Shaken Treat Can
Ziggy	Super Sonic Meow	Fish Bone Lockpick	Silver Bell Collar	Siamese Points	Shaken Treat Can
Milo	Door Knob Twist	Yarn Ball Grapple	Silver Bell Collar	Calico Patches	Shaken Treat Can
Tom	Door Knob Twist	Catnip Smoke Bomb	Silver Bell Collar	Tabby Stripes	Crinkly Paper
Bella	High-Shelf Leap	Yarn Ball Grapple	Silver Bell Collar	Calico Patches	Shaken Treat Can
Jasper	Laser Pointer Dodge	Fish Bone Lockpick	Silver Bell Collar	Siamese Points	Squeaky Toy
Whiskers	Silent Prowl	Cardboard Box Shield	Silver Bell Collar	Siamese Points	Crinkly Paper
Chloe	Silent Prowl	Fish Bone Lockpick	Silver Bell Collar	Calico Patches	Shaken Treat Can
Simba	Super Sonic Meow	Feather Wand Glider	Gold Bell Collar	Siamese Points	Squeaky Toy
Nala	Laser Pointer Dodge	Catnip Smoke Bomb	Silver Bell Collar	Tabby Stripes	Squeaky Toy
Felix	Super Sonic Meow	Cardboard Box Shield	Silver Bell Collar	Siamese Points	Shaken Treat Can
Garfield	High-Shelf Leap	Feather Wand Glider	Silver Bell Collar	Calico Patches	Shaken Treat Can

CLUE 1 Rounding

We found a digital footprint scale by the museum door. The display rounds the cat's weight to the nearest ten grams. Round this number to find the clue!

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

T 370	3700	3000	T 370	3700	4300	3000	2900	290	2000	3000	110	1700	2000	T 370	5000	110	3000
T 370	3700	3000	2900	3000	500	T 370	3700	3000	900	20	700	4300	290	3000	900		

Round 370 to the nearest ten → **T**

Round 1,951 to the nearest thousand → **O**

Round 920 to the nearest hundred → **R**

Round 2,896 to the nearest hundred → **F**

Round 532 to the nearest hundred → **A**

Round 2,594 to the nearest thousand → **E**

Round 106 to the nearest ten → **S**

Round 4,686 to the nearest thousand → **U**

Round 731 to the nearest hundred → **L**

Round 21 to the nearest ten → **G**

Round 3,714 to the nearest hundred → **H**

Round 4,303 to the nearest hundred → **I**

Round 291 to the nearest ten → **D**

Round 1,699 to the nearest hundred → **N**

Scratch space:

CLUE 2 Addition

A friendly mouse saw the thief drop some stolen jewels. Let's add up the sparkly rubies and emeralds to see what else the mouse found!

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

W																	
8665	7373	6253	7373	3247	3353	4654	3247	3529	9169	6257	4574	3213	9169	8407	6569	7373	3353

6268	7373	8407	8407	3353	9169	6257	6516	9169	6257	6516

$4124 + 4541 = \square \rightarrow \boxed{\text{W}}$	$2618 + 3650 = \square \rightarrow \boxed{\text{B}}$	$1477 + 2052 = \square \rightarrow \boxed{\text{T}}$
$1400 + 1847 = \square \rightarrow \boxed{\text{A}}$	$2163 + 2491 = \square \rightarrow \boxed{\text{D}}$	$3397 + 3976 = \square \rightarrow \boxed{\text{E}}$
$3464 + 4943 = \square \rightarrow \boxed{\text{L}}$	$1563 + 1790 = \square \rightarrow \boxed{\text{R}}$	$3135 + 6034 = \square \rightarrow \boxed{\text{I}}$
$3801 + 2715 = \square \rightarrow \boxed{\text{G}}$	$3629 + 2940 = \square \rightarrow \boxed{\text{V}}$	$2142 + 4115 = \square \rightarrow \boxed{\text{N}}$
$2976 + 1598 = \square \rightarrow \boxed{\text{Y}}$	$1843 + 1370 = \square \rightarrow \boxed{\text{S}}$	$4270 + 1983 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 3
Subtraction

The security guard cat had a big bowl of kibble. The thief ate some to gain energy. Subtract the leftovers to find how much kibble the thief ate!

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

T																
6448	6543	5606	4739	2232	4550	2466	6320	2232	8333	4739	6543	8191	7787	5606	2466	

T				T		T							T			
6448	1570	5606	8191	6448	4739	6448	1570	4614	8760	8760	5606	6320	6448	6543	5606	8360

$10532 - 4084 = \square \rightarrow \boxed{\text{T}}$

$7015 - 2276 = \square \rightarrow \boxed{\text{S}}$

$12243 - 3910 = \square \rightarrow \boxed{\text{F}}$

$6500 - 4930 = \square \rightarrow \boxed{\text{R}}$

$9367 - 4753 = \square \rightarrow \boxed{\text{I}}$

$7819 - 3269 = \square \rightarrow \boxed{\text{U}}$

$10276 - 1916 = \square \rightarrow \boxed{\text{M}}$

$11055 - 3268 = \square \rightarrow \boxed{\text{K}}$

$12357 - 3597 = \square \rightarrow \boxed{\text{P}}$

$9643 - 3100 = \square \rightarrow \boxed{\text{H}}$

$5805 - 3573 = \square \rightarrow \boxed{\text{O}}$

$12232 - 4041 = \square \rightarrow \boxed{\text{A}}$

$9821 - 3501 = \square \rightarrow \boxed{\text{D}}$

$6619 - 4153 = \square \rightarrow \boxed{\text{N}}$

$9732 - 4126 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

Multiplication facts (1-12)

The thief jumped across rows of fish cans stored in the pantry. Multiply the rows of cans to decode the security camera tape!

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

1 90 2 25 88 25 100 2 56 1 81 2 24 1 56 144 81 80 56 4

24 88 50 96 2 90 80 27 22

$$1 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{T}}$$

$$9 \times 9 = \boxed{} \rightarrow \boxed{\text{L}}$$

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

$12 \times 12 = \square \rightarrow \mathbf{A}$

$8 \times 10 = \boxed{} \rightarrow \boxed{I}$

$10 \times 10 = \boxed{} \rightarrow \boxed{\text{P}}$

$$8 \times 11 = \boxed{} \rightarrow \boxed{\text{U}}$$

$3 \times 9 = \square \rightarrow \boxed{\mathbf{N}}$

$8 \times 7 = \square \rightarrow \boxed{\text{C}}$

$6 \times 4 = \square \rightarrow \mathbf{F}$

$$5 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$2 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{E}}$$

$$4 \times 1 = \boxed{} \rightarrow \boxed{0}$$

$$9 \times 10 = \boxed{} \rightarrow \boxed{\text{H}}$$

$2 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$8 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

Scratch space:

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

We need to share these toy mice equally among the detective kittens. Divide the toys to unlock the final safe!

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:

$36 \div 4 = \boxed{}$

$12 \div 1 = \boxed{}$

$24 \div 12 = \boxed{}$

$30 \div 3 = \boxed{}$

$99 \div 9 = \boxed{}$

$36 \div 12 = \boxed{}$

$70 \div 10 = \boxed{}$

$8 \div 2 = \boxed{}$

$2 \div 2 = \boxed{}$

$10 \div 2 = \boxed{}$

$6 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain prowls without making a sound, then hides under a cardboard box shield.
2. The villain leaps onto the highest shelf, then swings away on a yarn ball grapple.
3. The villain prowls without making a sound, then escapes using a catnip smoke bomb.
4. The villain prowls without making a sound, then swings away on a yarn ball grapple.
5. The villain dodges lasers with style, then hides under a cardboard box shield.
6. The villain dodges lasers with style, then glides down with a feather wand.
7. The villain dodges lasers with style, then picks the display lock with a fish bone.
8. The villain leaps onto the highest shelf, then escapes using a catnip smoke bomb.
9. The villain prowls without making a sound, then picks the display lock with a fish bone.
10. The villain dodges lasers with style, then escapes using a catnip smoke bomb.
11. The villain shatters glass with a super sonic meow, then swings away on a yarn ball grapple.
12. The villain twists the heavy door knob, then swings away on a yarn ball grapple.

Answer Key

The Great Catnip Caper

Culprit: Fluffy

High-Shelf Leap · Catnip Smoke Bomb · Silver Bell Collar · Calico Patches · Shaken Treat Can

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT USE THE FEATHER GLIDER"

Round 370 to the nearest ten = 370 (T) · Round 1,951 to the nearest thousand = 2000 (O) · Round 920 to the nearest hundred = 900 (R) · Round 2,896 to the nearest hundred = 2900 (F) · Round 532 to the nearest hundred = 500 (A) · Round 2,594 to the nearest thousand = 3000 (E) · Round 106 to the nearest ten = 110 (S) · Round 4,686 to the nearest thousand = 5000 (U) · Round 731 to the nearest hundred = 700 (L) · Round 21 to the nearest ten = 20 (G) · Round 3,714 to the nearest hundred = 3700 (H) · Round 4,303 to the nearest hundred = 4300 (I) · Round 291 to the nearest ten = 290 (D) · Round 1,699 to the nearest hundred = 1700 (N)

Clue 2 (Addition): "WE HEARD A TINY SILVER BELL RINGING"

$4124 + 4541 = 8665$ (W) · $2618 + 3650 = 6268$ (B) · $1477 + 2052 = 3529$ (T) · $1400 + 1847 = 3247$ (A) · $2163 + 2491 = 4654$ (D) · $3397 + 3976 = 7373$ (E) · $3464 + 4943 = 8407$ (L) · $1563 + 1790 = 3353$ (R) · $3135 + 6034 = 9169$ (I) · $3801 + 2715 = 6516$ (G) · $3629 + 2940 = 6569$ (V) · $2142 + 4115 = 6257$ (N) · $2976 + 1598 = 4574$ (Y) · $1843 + 1370 = 3213$ (S) · $4270 + 1983 = 6253$ (H)

Clue 3 (Subtraction): "THE SOUND OF SHAKEN TREATS TRIPPED THEM"

$10532 - 4084 = 6448$ (T) · $7015 - 2276 = 4739$ (S) · $12243 - 3910 = 8333$ (F) · $6500 - 4930 = 1570$ (R) · $9367 - 4753 = 4614$ (I) · $7819 - 3269 = 4550$ (U) · $10276 - 1916 = 8360$ (M) · $11055 - 3268 = 7787$ (K) · $12357 - 3597 = 8760$ (P) · $9643 - 3100 = 6543$ (H) · $5805 - 3573 = 2232$ (O) · $12232 - 4041 = 8191$ (A) · $9821 - 3501 = 6320$ (D) · $6619 - 4153 = 2466$ (N) · $9732 - 4126 = 5606$ (E)

Clue 4 (Multiplication facts (1-12)): "THE SUSPECT LEFT CALICO FUR BEHIND"

$1 \times 1 = 1$ (T) · $9 \times 9 = 81$ (L) · $10 \times 5 = 50$ (R) · $12 \times 12 = 144$ (A) · $8 \times 10 = 80$ (I) · $10 \times 10 = 100$ (P) · $8 \times 11 = 88$ (U) · $3 \times 9 = 27$ (N) · $8 \times 7 = 56$ (C) · $6 \times 4 = 24$ (F) · $5 \times 5 = 25$ (S) · $2 \times 1 = 2$ (E) · $4 \times 1 = 4$ (O) · $9 \times 10 = 90$ (H) · $2 \times 11 = 22$ (D) · $8 \times 12 = 96$ (B)

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

$36 \div 4 = 9$ · $12 \div 1 = 12$ · $24 \div 12 = 2$ · $30 \div 3 = 10$ · $99 \div 9 = 11$ · $36 \div 12 = 3$ · $70 \div 10 = 7$ · $8 \div 2 = 4$ · $2 \div 2 = 1$ · $10 \div 2 = 5$ · $6 \div 1 = 6$