



The Great Yarn Caper

Grade 3 math · Addition, Multiplication, Rounding, Subtraction, Division · Reading level grades 1-2

Detective: _____ Date: _____

Someone stole the Golden Ball of Yarn from Whiskertown! A sneaky cat burglar left pawprints all over the factory floor. Help Inspector Paws solve the clues to find the guilty kitten!

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	SNEAKY SKILL	CAT TOY	PAW PREFERENCE	FUR COLOR	DISTRACTION
Penny	Silent Tread	Ribbon Wand	Left Pawed	Orange Tabby	Tuna Can
Smokey	Super Jump	Ribbon Wand	Right Pawed	Orange Tabby	Crinkly Bag
Oreo	Pounce Attack	Squeaky Toy	Left Pawed	Orange Tabby	Warm Sunbeam
Barnaby	Night Vision	Ribbon Wand	Right Pawed	Orange Tabby	Crinkly Bag
Peanut	Super Jump	Catnip Mouse	Right Pawed	Calico Fur	Tuna Can
Oliver	Wall Climb	Ribbon Wand	Right Pawed	Sleek Black	Crinkly Bag
Luna	Wall Climb	Squeaky Toy	Left Pawed	Calico Fur	Crinkly Bag
Pepper	Silent Tread	Catnip Mouse	Right Pawed	Calico Fur	Crinkly Bag
Whiskers	Wall Climb	Ribbon Wand	Right Pawed	Calico Fur	Crinkly Bag
Socko	Super Jump	Laser Pointer	Left Pawed	Calico Fur	Tuna Can
Simba	Wall Climb	Feather Wand	Left Pawed	Orange Tabby	Crinkly Bag
Mittens	Silent Tread	Catnip Mouse	Left Pawed	Calico Fur	Crinkly Bag
Hazel	Night Vision	Laser Pointer	Left Pawed	Calico Fur	Crinkly Bag
Garfield	Wall Climb	Laser Pointer	Left Pawed	Orange Tabby	Crinkly Bag
Chloe	Silent Tread	Squeaky Toy	Right Pawed	Orange Tabby	Tuna Can
Bella	Wall Climb	Laser Pointer	Left Pawed	Calico Fur	Warm Sunbeam
Sylvester	Night Vision	Ribbon Wand	Left Pawed	Calico Fur	Crinkly Bag
Gizmo	Silent Tread	Feather Wand	Right Pawed	Orange Tabby	Crinkly Bag
Ziggy	Silent Tread	Squeaky Toy	Right Pawed	Calico Fur	Tuna Can
Milo	Super Jump	Laser Pointer	Right Pawed	Orange Tabby	Warm Sunbeam
Jasper	Super Jump	Ribbon Wand	Left Pawed	Calico Fur	Crinkly Bag

CLUE 1 Addition

Inspector Paws added up all the tipped over kibble bowls to track the thief.

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

T																T
805	477	957	342	668	853	853	784	668	434	485	493	957	748	434	493	805

										T			
645	748	957	784	748	459	645	957	784	569	788	805	493	788

$375 + 430 = \square \rightarrow \mathbf{T}$	$530 + 258 = \square \rightarrow \mathbf{Y}$	$269 + 224 = \square \rightarrow \mathbf{O}$
$302 + 482 = \square \rightarrow \mathbf{A}$	$232 + 253 = \square \rightarrow \mathbf{D}$	$607 + 350 = \square \rightarrow \mathbf{E}$
$406 + 262 = \square \rightarrow \mathbf{I}$	$141 + 318 = \square \rightarrow \mathbf{Q}$	$227 + 418 = \square \rightarrow \mathbf{U}$
$306 + 171 = \square \rightarrow \mathbf{H}$	$541 + 312 = \square \rightarrow \mathbf{L}$	$329 + 240 = \square \rightarrow \mathbf{K}$
$432 + 316 = \square \rightarrow \mathbf{S}$	$136 + 298 = \square \rightarrow \mathbf{N}$	$169 + 173 = \square \rightarrow \mathbf{V}$

Scratch space:

CLUE 2
Multiplication facts (1-12)

We found crates of stolen yarn packed in neat equal rows across the floor.

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

T						T										T	
22	55	12	70	9	22	21	12	49	49	49	54	70	108	12	32	22	
									T			T				T	
16	54	70	12	35	16	3	9	21	22	49	54	22	21	9	15	55	22

$11 \times 2 = \square \rightarrow \text{**T**}$

$4 \times 3 = \square \rightarrow \text{**E**}$

$4 \times 4 = \square \rightarrow \text{**P**}$

$10 \times 7 = \square \rightarrow \text{**W**}$

$9 \times 12 = \square \rightarrow \text{**L**}$

$7 \times 7 = \square \rightarrow \text{**S**}$

$7 \times 3 = \square \rightarrow \text{**N**}$

$1 \times 9 = \square \rightarrow \text{**I**}$

$5 \times 7 = \square \rightarrow \text{**D**}$

$4 \times 8 = \square \rightarrow \text{**F**}$

$3 \times 5 = \square \rightarrow \text{**G**}$

$3 \times 1 = \square \rightarrow \text{**R**}$

$5 \times 11 = \square \rightarrow \text{**H**}$

$6 \times 9 = \square \rightarrow \text{**A**}$

Scratch space:

Rounding

The laser motion sensor gave a rounded number for the burglar height.

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

800 30 6000 500 600 2000 40 5000 20 2000 80 800 200 3000 3000 6000 700 70 200 2000

20 300 2000 90 4000 50 5000 9000 500 20 40

Round 758 to the nearest hundred $\rightarrow$ **T**

Round 2,281 to the nearest thousand $\rightarrow$ **R**

Round 746 to the nearest hundred → **D**

Round 47 to the nearest ten $\rightarrow$ **K**

Round 28 to the nearest ten $\rightarrow$ **H**

Round 304 to the nearest hundred → **C**

Round 40 to the nearest ten → **G**

Round 80 to the nearest ten $\rightarrow$ **S**

Round 3,681 to the nearest thousand → **N**

Round 233 to the nearest hundred $\rightarrow$

Round 72 to the nearest ten $\rightarrow$ **F**

Round 2,755 to the nearest thousand → **P**

Round 567 to the nearest hundred → **U**

Round 5,631 to the nearest thousand → **E**

Round 9,408 to the nearest thousand $\rightarrow$ **Y**

Round 469 to the nearest hundred → **B**

Round 4,831 to the nearest thousand → **L**

Round 90 to the nearest ten $\rightarrow$

Round 24 to the nearest ten $\rightarrow$ **A**

Scratch space:

CLUE 4
Subtraction

We checked how many fish treats were missing from the pantry jar.

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

T					T			T									
261	744	136	769	136	261	136	449	261	738	736	136	150	311	868	588	769	

449	607	376	738	449	311	150	868	474	588	136	607	474	849	607	474	588

$590 - 329 = \boxed{} \rightarrow \boxed{\text{T}}$

$792 - 204 = \boxed{} \rightarrow \boxed{\text{N}}$

$843 - 74 = \boxed{} \rightarrow \boxed{\text{D}}$

$260 - 124 = \boxed{} \rightarrow \boxed{\text{E}}$

$427 - 51 = \boxed{} \rightarrow \boxed{\text{L}}$

$1055 - 206 = \boxed{} \rightarrow \boxed{\text{Y}}$

$580 - 106 = \boxed{} \rightarrow \boxed{\text{R}}$

$877 - 141 = \boxed{} \rightarrow \boxed{\text{V}}$

$778 - 171 = \boxed{} \rightarrow \boxed{\text{A}}$

$494 - 183 = \boxed{} \rightarrow \boxed{\text{O}}$

$672 - 223 = \boxed{} \rightarrow \boxed{\text{C}}$

$833 - 95 = \boxed{} \rightarrow \boxed{\text{I}}$

$341 - 191 = \boxed{} \rightarrow \boxed{\text{F}}$

$1091 - 223 = \boxed{} \rightarrow \boxed{\text{U}}$

$1096 - 352 = \boxed{} \rightarrow \boxed{\text{H}}$

Scratch space:

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

The shelter kittens shared the leftover ribbon rolls equally.

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:

$4 \div 1 = \boxed{}$

$60 \div 12 = \boxed{}$

$64 \div 8 = \boxed{}$

$12 \div 4 = \boxed{}$

$7 \div 7 = \boxed{}$

$108 \div 9 = \boxed{}$

$90 \div 9 = \boxed{}$

$88 \div 8 = \boxed{}$

$27 \div 3 = \boxed{}$

$10 \div 5 = \boxed{}$

$49 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain did a wall climb, then tangled a ribbon wand.
2. The villain pounced from above, then squeaked a toy.
3. The villain pounced from above, then tangled a ribbon wand.
4. The villain walked on silent tread, then dropped a catnip mouse.
5. The villain made a super jump, then tangled a ribbon wand.
6. The villain used night vision, then tangled a ribbon wand.
7. The villain did a wall climb, then waved a feather wand.
8. The villain used night vision, then flashed a laser pointer.
9. The villain pounced from above, then flashed a laser pointer.
10. The villain pounced from above, then dropped a catnip mouse.
11. The villain used night vision, then waved a feather wand.
12. The villain walked on silent tread, then flashed a laser pointer.

Answer Key

The Great Yarn Caper

Culprit: Sylvester

Night Vision · Ribbon Wand · Left Pawed · Calico Fur · Crinkly Bag

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A SQUEAKY TOY"

$375 + 430 = 805$ (T) · $530 + 258 = 788$ (Y) · $269 + 224 = 493$ (O) · $302 + 482 = 784$ (A) · $232 + 253 = 485$ (D) · $607 + 350 = 957$ (E) · $406 + 262 = 668$ (I) · $141 + 318 = 459$ (Q) · $227 + 418 = 645$ (U) · $306 + 171 = 477$ (H) · $541 + 312 = 853$ (L) · $329 + 240 = 569$ (K) · $432 + 316 = 748$ (S) · $136 + 298 = 434$ (N) · $169 + 173 = 342$ (V)

Clue 2 (Multiplication facts (1-12)): "THE WITNESS SAW LEFT PAWED PRINTS AT NIGHT"

$11 \times 2 = 22$ (T) · $4 \times 3 = 12$ (E) · $4 \times 4 = 16$ (P) · $10 \times 7 = 70$ (W) · $9 \times 12 = 108$ (L) · $7 \times 7 = 49$ (S) · $7 \times 3 = 21$ (N) · $1 \times 9 = 9$ (I) · $5 \times 7 = 35$ (D) · $4 \times 8 = 32$ (F) · $3 \times 5 = 15$ (G) · $3 \times 1 = 3$ (R) · $5 \times 11 = 55$ (H) · $6 \times 9 = 54$ (A)

Clue 3 (Rounding): "THE BURGLAR STOPPED FOR A CRINKLY BAG"

Round 758 to the nearest hundred = 800 (T) · Round 2,281 to the nearest thousand = 2000 (R) · Round 746 to the nearest hundred = 700 (D) · Round 47 to the nearest ten = 50 (K) · Round 28 to the nearest ten = 30 (H) · Round 304 to the nearest hundred = 300 (C) · Round 40 to the nearest ten = 40 (G) · Round 80 to the nearest ten = 80 (S) · Round 3,681 to the nearest thousand = 4000 (N) · Round 233 to the nearest hundred = 200 (O) · Round 72 to the nearest ten = 70 (F) · Round 2,755 to the nearest thousand = 3000 (P) · Round 567 to the nearest hundred = 600 (U) · Round 5,631 to the nearest thousand = 6000 (E) · Round 9,408 to the nearest thousand = 9000 (Y) · Round 469 to the nearest hundred = 500 (B) · Round 4,831 to the nearest thousand = 5000 (L) · Round 90 to the nearest ten = 90 (I) · Round 24 to the nearest ten = 20 (A)

Clue 4 (Subtraction): "THE DETECTIVE FOUND CALICO FUR NEAR YARN"

$590 - 329 = 261$ (T) · $792 - 204 = 588$ (N) · $843 - 74 = 769$ (D) · $260 - 124 = 136$ (E) · $427 - 51 = 376$ (L) · $1055 - 206 = 849$ (Y) · $580 - 106 = 474$ (R) · $877 - 141 = 736$ (V) · $778 - 171 = 607$ (A) · $494 - 183 = 311$ (O) · $672 - 223 = 449$ (C) · $833 - 95 = 738$ (I) · $341 - 191 = 150$ (F) · $1091 - 223 = 868$ (U) · $1096 - 352 = 744$ (H)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Sylvester

$4 \div 1 = 4$ · $60 \div 12 = 5$ · $64 \div 8 = 8$ · $12 \div 4 = 3$ · $7 \div 7 = 1$ · $108 \div 9 = 12$ · $90 \div 9 = 10$ · $88 \div 8 = 11$ · $27 \div 3 = 9$ · $10 \div 5 = 2$ · $49 \div 7 = 7$