



The Great Kibble Heist

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

Detective: _____ **Date:** _____

Someone snuck into the Barkington Park Dog Show and swiped the Golden Bone Trophy! The Lead Dog Trainer needs your help to track down the sneaky pup 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 Puppy Thief is _____

Possible suspects

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

NAME	TRICK SKILL	SUPER ABILITY	LEASH SIDE	COAT TYPE	DISTRACTION
Luna	deep sniffing	digging tunnels	right pawed	fluffy coat	squeaky toys
Max	clever fetching	catching frisbees	right pawed	sleek hair	peanut butter
Oliver	loud barking	digging tunnels	right pawed	sleek hair	peanut butter
Zeus	loud barking	catching frisbees	left pawed	fluffy coat	squeaky toys
Penny	speed running	digging tunnels	left pawed	sleek hair	squeaky toys
Duke	clever fetching	opening gates	left pawed	fluffy coat	squeaky toys
Milo	clever fetching	climbing fences	right pawed	fluffy coat	squeaky toys
Daisy	loud barking	digging tunnels	left pawed	fluffy coat	squeaky toys
Bear	high jumping	balancing treats	left pawed	sleek hair	squeaky toys
Lucy	deep sniffing	catching frisbees	left pawed	fluffy coat	peanut butter
Buddy	clever fetching	catching frisbees	left pawed	fluffy coat	peanut butter
Bailey	high jumping	climbing fences	right pawed	curly fur	squeaky toys
Lola	speed running	catching frisbees	left pawed	sleek hair	squeaky toys
Bentley	high jumping	digging tunnels	right pawed	sleek hair	belly rubs
Stella	high jumping	balancing treats	right pawed	fluffy coat	peanut butter
Bella	clever fetching	climbing fences	right pawed	sleek hair	peanut butter
Sadie	speed running	climbing fences	left pawed	fluffy coat	squeaky toys
Coco	speed running	opening gates	right pawed	fluffy coat	squeaky toys
Toby	clever fetching	climbing fences	left pawed	fluffy coat	belly rubs
Rosie	deep sniffing	balancing treats	left pawed	fluffy coat	squeaky toys
Cooper	loud barking	catching frisbees	right pawed	sleek hair	peanut butter

CLUE 1

To find the suspect, we examine the digital lock code on the trophy case. The place value of the digits reveals our first big hint.

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

300 5000 90 400 900 3000 3000 600 900 8000 500 7000 90 80 8000 7000 300

500 900 2000 300 30 8000 8000 90 3000 80

What is the value of the 3 in 6,361? → **T**

What is the value of the 8 in 8,125? → **N**

What is the value of the 9 in 896? → **E**

What is the value of the 3 in 737? → **U**

What is the value of the 2 in 82,509? → **G**

What is the value of the 6 in 609? → **A**

What is the value of the 9 in 935? →

What is the value of the 8 in 7,984? → **S**

What is the value of the 3 in 3,141? → **L**

What is the value of the 7 in 7,453? →

What is the value of the 5 in 75,133? → **H**

What is the value of the 4 in 3,475? → **V**

What is the value of the 5 in 583? → **D**

Scratch space:

CLUE 2 Addition

The pet sitter tallies up the missing tennis balls. Adding these extra items together points us toward the dog's favorite game.

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

T										T									T	
547	950	341	836	522	955	780	420	505	547	603	801	505	780	341	509	801	505	547	950	

T						T			
547	950	341	955	341	845	547	780	606	801

$191 + 356 = \square \rightarrow \boxed{\text{T}}$

$537 + 299 = \square \rightarrow \boxed{\text{C}}$

$483 + 362 = \square \rightarrow \boxed{\text{F}}$

$258 + 345 = \square \rightarrow \boxed{\text{S}}$

$175 + 347 = \square \rightarrow \boxed{\text{U}}$

$239 + 181 = \square \rightarrow \boxed{\text{R}}$

$308 + 197 = \square \rightarrow \boxed{\text{I}}$

$664 + 291 = \square \rightarrow \boxed{\text{L}}$

$378 + 402 = \square \rightarrow \boxed{\text{P}}$

$377 + 573 = \square \rightarrow \boxed{\text{H}}$

$266 + 535 = \square \rightarrow \boxed{\text{W}}$

$198 + 408 = \square \rightarrow \boxed{\text{A}}$

$184 + 157 = \square \rightarrow \boxed{\text{E}}$

$195 + 314 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 3

Subtraction

We count the biscuits left in the box. Subtracting the eaten ones helps us figure out how the culprit got away.

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

T																		
415	238	837	767	879	837	759	448	699	302	804	302	767	415	330	302	302	837	526

489	330	821	767	339	804	837	759	448	699	415	330	699	767					

$640 - 225 = \square \rightarrow \boxed{\text{T}}$

$833 - 29 = \square \rightarrow \boxed{\text{U}}$

$415 - 85 = \square \rightarrow \boxed{\text{O}}$

$684 - 345 = \square \rightarrow \boxed{\text{Q}}$

$880 - 121 = \square \rightarrow \boxed{\text{A}}$

$1013 - 176 = \square \rightarrow \boxed{\text{E}}$

$1080 - 381 = \square \rightarrow \boxed{\text{Y}}$

$946 - 125 = \square \rightarrow \boxed{\text{R}}$

$779 - 290 = \square \rightarrow \boxed{\text{F}}$

$652 - 204 = \square \rightarrow \boxed{\text{K}}$

$1050 - 283 = \square \rightarrow \boxed{\text{S}}$

$1224 - 345 = \square \rightarrow \boxed{\text{N}}$

$657 - 131 = \square \rightarrow \boxed{\text{D}}$

$385 - 147 = \square \rightarrow \boxed{\text{H}}$

$559 - 257 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 4

The scale in the grooming salon only displays rounded numbers. Rounding the weight to the nearest ten reveals the coat type.

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

T													T	T					
50	300	90	20	900	90	70	90	300	4000	2000	9000	4000	50	50	90	600	70	20	
6000	700	700	3000	80	700	700	500	900	6000	4000	50								

Round 46 to the nearest ten $\rightarrow$ **T**

Round 20 to the nearest ten $\rightarrow$ **S**

Round 94 to the nearest ten $\rightarrow$ **E**

Round 853 to the nearest hundred $\rightarrow$ **C**

Round 587 to the nearest hundred $\rightarrow$ **R**

Round 83 to the nearest ten $\rightarrow$ **U**

Round 700 to the nearest hundred → **F**

Round 5,540 to the nearest thousand $\rightarrow$

Round 470 to the nearest hundred $\rightarrow$ **Y**

Round 3,156 to the nearest thousand $\rightarrow$ **L**

Round 9,376 to the nearest thousand $\rightarrow$ **P**

Round 66 to the nearest ten → **N**

Round 2,413 to the nearest thousand → **D**

Round 4,270 to the nearest thousand $\rightarrow$ **A**

Round 349 to the nearest hundred $\rightarrow$ **H**

Scratch space:

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

We share a bag of chew bones equally among the search dogs. Dividing the treats fairly gives us the final clue to stop them.

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:

$55 \div 11 = \square$

$36 \div 3 = \square$

$7 \div 7 = \square$

$44 \div 4 = \square$

$108 \div 12 = \square$

$49 \div 7 = \square$

$48 \div 8 = \square$

$24 \div 6 = \square$

$48 \div 6 = \square$

$24 \div 12 = \square$

$80 \div 8 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain followed a faint scent, then carried three bones at once.
2. The villain leaped over the barrier, then carried three bones at once.
3. The villain carried the prize away, then unlatched the backyard gate.
4. The villain followed a faint scent, then scaled the wooden fence.
5. The villain dashed across the lawn, then scaled the wooden fence.
6. The villain carried the prize away, then burrowed under the porch.
7. The villain barked a loud warning, then unlatched the backyard gate.
8. The villain dashed across the lawn, then snagged a flying disc.
9. The villain barked a loud warning, then carried three bones at once.
10. The villain leaped over the barrier, then scaled the wooden fence.
11. The villain dashed across the lawn, then carried three bones at once.
12. The villain barked a loud warning, then snagged a flying disc.

Answer Key

The Great Kibble Heist

Culprit: Duke

clever fetching · opening gates · left pawed · fluffy coat · squeaky toys

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT DIG TUNNELS"

What is the value of the 3 in 6,361? = 300 (T) · What is the value of the 8 in 8,125? = 8000 (N) · What is the value of the 9 in 896? = 90 (E) · What is the value of the 3 in 737? = 30 (U) · What is the value of the 2 in 82,509? = 2000 (G) · What is the value of the 6 in 609? = 600 (A) · What is the value of the 9 in 935? = 900 (I) · What is the value of the 8 in 7,984? = 80 (S) · What is the value of the 3 in 3,141? = 3000 (L) · What is the value of the 7 in 7,453? = 7000 (O) · What is the value of the 5 in 75,133? = 5000 (H) · What is the value of the 4 in 3,475? = 400 (V) · What is the value of the 5 in 583? = 500 (D)

Clue 2 (Addition): "THE CULPRIT SWIPED WITH THE LEFT PAW"

$191 + 356 = 547$ (T) · $537 + 299 = 836$ (C) · $483 + 362 = 845$ (F) · $258 + 345 = 603$ (S) · $175 + 347 = 522$ (U) · $239 + 181 = 420$ (R) · $308 + 197 = 505$ (I) · $664 + 291 = 955$ (L) · $378 + 402 = 780$ (P) · $377 + 573 = 950$ (H) · $266 + 535 = 801$ (W) · $198 + 408 = 606$ (A) · $184 + 157 = 341$ (E) · $195 + 314 = 509$ (D)

Clue 3 (Subtraction): "THE SNEAKY PUP STOPPED FOR SQUEAKY TOYS"

$640 - 225 = 415$ (T) · $833 - 29 = 804$ (U) · $415 - 85 = 330$ (O) · $684 - 345 = 339$ (Q) · $880 - 121 = 759$ (A) · $1013 - 176 = 837$ (E) · $1080 - 381 = 699$ (Y) · $946 - 125 = 821$ (R) · $779 - 290 = 489$ (F) · $652 - 204 = 448$ (K) · $1050 - 283 = 767$ (S) · $1224 - 345 = 879$ (N) · $657 - 131 = 526$ (D) · $385 - 147 = 238$ (H) · $559 - 257 = 302$ (P)

Clue 4 (Rounding): "THE SCENE HAD PATTERNS OF FLUFFY COAT"

Round 46 to the nearest ten = 50 (T) · Round 20 to the nearest ten = 20 (S) · Round 94 to the nearest ten = 90 (E) · Round 853 to the nearest hundred = 900 (C) · Round 587 to the nearest hundred = 600 (R) · Round 83 to the nearest ten = 80 (U) · Round 700 to the nearest hundred = 700 (F) · Round 5,540 to the nearest thousand = 6000 (O) · Round 470 to the nearest hundred = 500 (Y) · Round 3,156 to the nearest thousand = 3000 (L) · Round 9,376 to the nearest thousand = 9000 (P) · Round 66 to the nearest ten = 70 (N) · Round 2,413 to the nearest thousand = 2000 (D) · Round 4,270 to the nearest thousand = 4000 (A) · Round 349 to the nearest hundred = 300 (H)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Duke

$55 \div 11 = 5$ · $36 \div 3 = 12$ · $7 \div 7 = 1$ · $44 \div 4 = 11$ · $108 \div 12 = 9$ · $49 \div 7 = 7$ · $48 \div 8 = 6$ · $24 \div 6 = 4$ · $48 \div 6 = 8$ · $24 \div 12 = 2$ · $80 \div 8 = 10$