



The Great Dog Show Heist

Grade 3 math · Multiplication, Rounding, Word problems, Place value, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Oh no! The Golden Treat Trophy has been swiped right before the Bark City Dog Show! A very sneaky pup snuck into the trophy room and ran off. The Chief Treats Officer needs your help. Look for clues, solve the math puzzles, and sniff out the thief before the big show begins!

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 Sneaky Snatcher is _____

Possible suspects

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

NAME	TRICK POWER	FAVORITE TOY	COLLAR COLOR	FUR TYPE	DISTRACTION
Copper	Super Bark	Golden Bone	Wears Blue Collar	Sleek Black Fur	Peanut Butter
Buster	High Jump	Tennis Ball	Wears Blue Collar	Sleek Black Fur	Squeaky Squirrels
Perdita	High Jump	Chew Rope	Wears Blue Collar	Sleek Black Fur	Peanut Butter
Odie	Digging Dash	Flea Collar	Wears Blue Collar	Spotted White Fur	Peanut Butter
Shiloh	Super Bark	Golden Bone	Wears Red Collar	Sleek Black Fur	Peanut Butter
Slinky	Super Bark	Flea Collar	Wears Blue Collar	Sleek Black Fur	Squeaky Squirrels
Bolt	Snack Snatcher	Chew Rope	Wears Blue Collar	Spotted White Fur	Peanut Butter
Pongo	Mega Fetch	Flea Collar	Wears Blue Collar	Fluffy Golden Fur	Peanut Butter
Beethoven	Super Bark	Chew Rope	Wears Red Collar	Fluffy Golden Fur	Belly Rubs
Hachiko	High Jump	Tennis Ball	Wears Blue Collar	Sleek Black Fur	Peanut Butter
Snoopy	Mega Fetch	Squeaky Toy	Wears Blue Collar	Fluffy Golden Fur	Peanut Butter
Clifford	Digging Dash	Golden Bone	Wears Blue Collar	Sleek Black Fur	Belly Rubs
Dug	High Jump	Flea Collar	Wears Blue Collar	Sleek Black Fur	Belly Rubs
Bluey	Digging Dash	Chew Rope	Wears Red Collar	Spotted White Fur	Peanut Butter
Wishbone	Snack Snatcher	Flea Collar	Wears Red Collar	Fluffy Golden Fur	Belly Rubs
Toto	Snack Snatcher	Flea Collar	Wears Red Collar	Spotted White Fur	Peanut Butter
Marley	Snack Snatcher	Squeaky Toy	Wears Blue Collar	Sleek Black Fur	Peanut Butter
Balto	Digging Dash	Squeaky Toy	Wears Blue Collar	Sleek Black Fur	Squeaky Squirrels
Scooby	Super Bark	Tennis Ball	Wears Red Collar	Fluffy Golden Fur	Squeaky Squirrels
Nana	High Jump	Golden Bone	Wears Red Collar	Sleek Black Fur	Peanut Butter
Lady	Digging Dash	Squeaky Toy	Wears Blue Collar	Sleek Black Fur	Peanut Butter

CLUE 1
Multiplication facts (1-12)

The security cameras recorded the thief running past rows of dog houses. We can find a clue by counting the houses in equal rows!

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

T																T
144	6	7	20	56	3	3	60	56	15	50	24	7	72	15	24	144

						T										
40	60	25	25	64	60	144	7	15	15	56	72	66	60	3	3	

$12 \times 12 = \square \rightarrow \text{ T }$

$12 \times 5 = \square \rightarrow \text{ A }$

$3 \times 5 = \square \rightarrow \text{ N }$

$3 \times 1 = \square \rightarrow \text{ L }$

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

$8 \times 7 = \square \rightarrow \text{ I }$

$1 \times 7 = \square \rightarrow \text{ E }$

$11 \times 6 = \square \rightarrow \text{ B }$

$5 \times 8 = \square \rightarrow \text{ C }$

$8 \times 8 = \square \rightarrow \text{ Y }$

$8 \times 3 = \square \rightarrow \text{ O }$

$5 \times 10 = \square \rightarrow \text{ D }$

$6 \times 12 = \square \rightarrow \text{ S }$

$5 \times 4 = \square \rightarrow \text{ V }$

$6 \times 1 = \square \rightarrow \text{ H }$

Scratch space:

CLUE 2 Rounding

The heavy trophy left a deep print in the mud. Our scale can only give a rounded weight, but it will help us find the next clue!

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

T																
5000	7000	200	500	3000	50	800	200	2000	500	200	4000	200	7000	300	30	
			T	T												
700	70	50	5000	5000	200	3000	40	3000	6000	800	300	90	70	8000	200	
500	6000	70	70	300	3000											

Round 5,047 to the nearest thousand → **T**

Round 28 to the nearest ten → **D**

Round 6,438 to the nearest thousand → **O**

Round 4,335 to the nearest thousand → **N**

Round 3,024 to the nearest thousand → **R**

Round 7,409 to the nearest thousand → **H**

Round 1,988 to the nearest thousand → **S**

Round 337 to the nearest hundred → **A**

Round 482 to the nearest hundred → **C**

Round 205 to the nearest hundred → **E**

Round 52 to the nearest ten → **I**

Round 42 to the nearest ten → **F**

Round 7,887 to the nearest thousand → **U**

Round 90 to the nearest ten → **B**

Round 725 to the nearest hundred → **G**

Round 824 to the nearest hundred → **M**

Round 71 to the nearest ten → **L**

Scratch space:

CLUE 4 Place value

The security lock has a code based on tens and ones. Group the dog bones into place value boxes to reveal the next hint!

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

A				A														
200	600	4000	20	200	7000	400	5000	500	600	10	50	50	300	60	10	200	80	300

				A											
500	90	20	700	200	600	5000	7000	4000	70	50	80	5000	90	80	70

What is the value of the 2 in 3,280? → **A**

What is the value of the 7 in 9,878? → **H**

What is the value of the 6 in 5,861? → **B**

What is the value of the 1 in 514? → **L**

What is the value of the 6 in 654? → **S**

What is the value of the 7 in 8,732? → **W**

What is the value of the 5 in 510? → **F**

What is the value of the 2 in 727? → **R**

What is the value of the 8 in 589? → **C**

What is the value of the 5 in 5,617? → **O**

What is the value of the 4 in 8,472? → **D**

What is the value of the 5 in 7,259? → **E**

What is the value of the 4 in 14,909? → **T**

What is the value of the 3 in 7,326? → **K**

What is the value of the 9 in 1,296? → **U**

What is the value of the 7 in 17,320? → **N**

Scratch space:

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

We need to share these chew toys equally among the search dogs to map out the escape path. Let us divide them up!

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:

$108 \div 9 = \boxed{}$

$36 \div 6 = \boxed{}$

$12 \div 6 = \boxed{}$

$27 \div 9 = \boxed{}$

$30 \div 6 = \boxed{}$

$8 \div 2 = \boxed{}$

$27 \div 3 = \boxed{}$

$16 \div 2 = \boxed{}$

$80 \div 8 = \boxed{}$

$35 \div 5 = \boxed{}$

$121 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain zipped away with a Digging Dash, then squeaked a Squeaky Toy to distract everyone.
2. The villain blasted a loud Super Bark, then buried a Golden Bone in the garden.
3. The villain zipped away with a Digging Dash, then bounced a Tennis Ball down the hallway.
4. The villain blasted a loud Super Bark, then scratched at a Flea Collar.
5. The villain zipped off playing Mega Fetch, then scratched at a Flea Collar.
6. The villain leaped over the fence with a High Jump, then tripped up the guards with a Chew Rope.
7. The villain zipped off playing Mega Fetch, then buried a Golden Bone in the garden.
8. The villain grabbed the loot like a Snack Snatcher, then tripped up the guards with a Chew Rope.
9. The villain zipped off playing Mega Fetch, then tripped up the guards with a Chew Rope.
10. The villain blasted a loud Super Bark, then bounced a Tennis Ball down the hallway.
11. The villain leaped over the fence with a High Jump, then buried a Golden Bone in the garden.
12. The villain grabbed the loot like a Snack Snatcher, then squeaked a Squeaky Toy to distract everyone.

Answer Key

The Great Dog Show Heist

Culprit: Lady

Digging Dash · Squeaky Toy · Wears Blue Collar · Sleek Black Fur · Peanut Butter

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT CARRY A TENNIS BALL"

$12 \times 12 = 144$ (T) · $12 \times 5 = 60$ (A) · $3 \times 5 = 15$ (N) · $3 \times 1 = 3$ (L) · $5 \times 5 = 25$ (R) · $8 \times 7 = 56$ (I) · $1 \times 7 = 7$ (E) · $11 \times 6 = 66$ (B) · $5 \times 8 = 40$ (C) · $8 \times 8 = 64$ (Y) · $8 \times 3 = 24$ (O) · $5 \times 10 = 50$ (D) · $6 \times 12 = 72$ (S) · $5 \times 4 = 20$ (V) · $6 \times 1 = 6$ (H)

Clue 2 (Rounding): "THE CRIME SCENE HAD GLITTER FROM A BLUE COLLAR"

Round 5,047 to the nearest thousand = 5000 (T) · Round 28 to the nearest ten = 30 (D) · Round 6,438 to the nearest thousand = 6000 (O) · Round 4,335 to the nearest thousand = 4000 (N) · Round 3,024 to the nearest thousand = 3000 (R) · Round 7,409 to the nearest thousand = 7000 (H) · Round 1,988 to the nearest thousand = 2000 (S) · Round 337 to the nearest hundred = 300 (A) · Round 482 to the nearest hundred = 500 (C) · Round 205 to the nearest hundred = 200 (E) · Round 52 to the nearest ten = 50 (I) · Round 42 to the nearest ten = 40 (F) · Round 7,887 to the nearest thousand = 8000 (U) · Round 90 to the nearest ten = 90 (B) · Round 725 to the nearest hundred = 700 (G) · Round 824 to the nearest hundred = 800 (M) · Round 71 to the nearest ten = 70 (L)

Clue 3 (Word problems): "PEANUT BUTTER"

There were 74 tennis balls. 20 were used up. How many tennis balls are left? = 54 (P) · There were 104 dog treats. 39 were used up. How many dog treats are left? = 65 (U) · There were 70 dog treats. 3 were used up. How many dog treats are left? = 67 (A) · Detective Sparky found 4 dog bowls yesterday and 34 more today. How many dog bowls in all? = 38 (N) · Detective Sparky found 32 squeaky bones yesterday and 44 more today. How many squeaky bones in all? = 76 (B) · There were 58 dog bowls. 9 were used up. How many dog bowls are left? = 49 (T) · Detective Sparky found 52 chew ropes yesterday and 25 more today. How many chew ropes in all? = 77 (E)

Clue 4 (Place value): "A STRAND OF SLEEK BLACK FUR WAS ON THE COUCH"

What is the value of the 2 in 3,280? = 200 (A) · What is the value of the 7 in 9,878? = 70 (H) · What is the value of the 6 in 5,861? = 60 (B) · What is the value of the 1 in 514? = 10 (L) · What is the value of the 6 in 654? = 600 (S) · What is the value of the 7 in 8,732? = 700 (W) · What is the value of the 5 in 510? = 500 (F) · What is the value of the 2 in 727? = 20 (R) · What is the value of the 8 in 589? = 80 (C) · What is the value of the 5 in 5,617? = 5000 (O) · What is the value of the 4 in 8,472? = 400 (D) · What is the value of the 5 in 7,259? = 50 (E) · What is the value of the 4 in 14,909? = 4000 (T) · What is the value of the 3 in 7,326? = 300 (K) · What is the value of the 9 in 1,296? = 90 (U) · What is the value of the 7 in 17,320? = 7000 (N)

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

$108 \div 9 = 12$ · $36 \div 6 = 6$ · $12 \div 6 = 2$ · $27 \div 9 = 3$ · $30 \div 6 = 5$ · $8 \div 2 = 4$ · $27 \div 3 = 9$ · $16 \div 2 = 8$ · $80 \div 8 = 10$ · $35 \div 5 = 7$ · $121 \div 11 = 11$