



The Gymnastic Paw Trophy Caper

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

Detective: _____ Date: _____

The Golden Bone Trophy has been swiped from the center podium right before the big floor routine. Only a highly skilled gymnastics dog could flip past the laser beams. We must look at the clues and find out 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 gymnastic pup bandit is _____

Possible suspects

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

NAME	FLOOR SKILL	SQUEAKY TOY GEAR	LANDING FOOT	FUR STYLE	DISTRACTION
Lola	Cartwheel Spin	Crinkly Tug Rope	Right Paw First	Braided Tail	Squeaky Duck Sound
Simone Barks	Double Front Flip	Crinkly Tug Rope	Left Paw First	Braided Tail	Peanut Butter Smell
Buster	Balance Beam Walk	Plush Dumbbell	Right Paw First	Spiky Mohawk Fur	Laser Pointer Dot
Cooper	Balance Beam Walk	Crinkly Tug Rope	Right Paw First	Curly Poodle Puff	Peanut Butter Smell
Buddy	Giant Swing	Crinkly Tug Rope	Left Paw First	Curly Poodle Puff	Squeaky Duck Sound
Aly Raispup	Cartwheel Spin	Squeaky Tennis Ball	Left Paw First	Curly Poodle Puff	Peanut Butter Smell
Nastia Liukinup	Balance Beam Walk	Plush Dumbbell	Left Paw First	Curly Poodle Puff	Laser Pointer Dot
Nile Wilsonny	Giant Swing	Crinkly Tug Rope	Right Paw First	Spiky Mohawk Fur	Laser Pointer Dot
Barky Comaneci	Giant Swing	Plush Dumbbell	Right Paw First	Curly Poodle Puff	Laser Pointer Dot
Maggie	Cartwheel Spin	Noisy Rubber Bone	Left Paw First	Braided Tail	Squeaky Duck Sound
Tucker	Double Front Flip	Plush Dumbbell	Left Paw First	Curly Poodle Puff	Peanut Butter Smell
Duke	Cartwheel Spin	Bouncing Treat Ball	Left Paw First	Curly Poodle Puff	Peanut Butter Smell
Daisy	Back Handspring	Plush Dumbbell	Left Paw First	Braided Tail	Peanut Butter Smell
Bailey	Giant Swing	Crinkly Tug Rope	Right Paw First	Curly Poodle Puff	Laser Pointer Dot
Spot	Double Front Flip	Bouncing Treat Ball	Left Paw First	Spiky Mohawk Fur	Laser Pointer Dot
Sadie	Giant Swing	Bouncing Treat Ball	Right Paw First	Spiky Mohawk Fur	Peanut Butter Smell
Max Whitlocky	Giant Swing	Noisy Rubber Bone	Right Paw First	Curly Poodle Puff	Laser Pointer Dot
Shawn Pup	Giant Swing	Crinkly Tug Rope	Left Paw First	Curly Poodle Puff	Peanut Butter Smell
Kohei Uchimutt	Cartwheel Spin	Noisy Rubber Bone	Left Paw First	Curly Poodle Puff	Peanut Butter Smell
Bella	Back Handspring	Noisy Rubber Bone	Right Paw First	Curly Poodle Puff	Laser Pointer Dot
Rover	Balance Beam Walk	Bouncing Treat Ball	Left Paw First	Curly Poodle Puff	Laser Pointer Dot

Multiplication facts (1-12)

To find the floor maps, we counted the equal rows of gymnastics mats stacked in the back gym.

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

63 24 44 56 27 45 7 50 63 7 84 44 3 45 84 63 15 3 44

27 45 84 50 3 48 28 15 56 56 44 28 56 84 45 44

$9 \times 7 = \square \rightarrow \boxed{\text{T}}$

$4 \times 12 = \boxed{} \rightarrow \boxed{\text{Y}}$

$11 \times 4 = \boxed{} \rightarrow \boxed{\text{E}}$

$7 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$1 \times 7 = \square \rightarrow \boxed{\mathbf{D}}$

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

$$12 \times 7 = \boxed{} \rightarrow \boxed{0}$$

$1 \times 3 = \square \rightarrow \boxed{\mathbf{S}}$

$9 \times 5 = \boxed{} \rightarrow \boxed{\text{N}}$

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

$$5 \times 3 = \boxed{} \rightarrow \boxed{\text{U}}$$

$7 \times 4 = \square \rightarrow \boxed{\mathbf{R}}$

$10 \times 5 =$ $\rightarrow$

Scratch space:

CLUE 2

Rounding

We looked at the scoreboard radar, which only shows the runner's speed rounded to the nearest ten.

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

T																	
130	5000	200	430	20	90	90	1700	20	700	90	1700	700	370	200	370	1100	700

T								T			
130	5000	200	20	3000	90	200	290	130	2900	1700	2300

Round 126 to the nearest ten → **T**

Round 291 to the nearest ten → **F**

Round 366 to the nearest ten → **D**

Round 2,260 to the nearest hundred → **W**

Round 200 to the nearest hundred → **E**

Round 1,109 to the nearest hundred → **O**

Round 426 to the nearest ten → **V**

Round 16 to the nearest ten → **I**

Round 1,743 to the nearest hundred → **A**

Round 90 to the nearest ten → **L**

Round 4,959 to the nearest thousand → **H**

Round 715 to the nearest hundred → **N**

Round 2,864 to the nearest hundred → **P**

Round 3,070 to the nearest thousand → **R**

Scratch space:

CLUE 3
Addition

We tallied up the score sheets left behind on the judges' table to see the total score.

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

T								T								T								
7747	5086	6611	2798	8781	2798	6563	7747	8283	2798	2798	6611	2542	7747	8283	5897	4110	7664	3105						

					T			T	T				
2798	6611	7448	6320	8781	7747	4780	8781	7747	7747	6611	4309		

$3466 + 4281 = \square \rightarrow \text{**T**}$

$2380 + 1730 = \square \rightarrow \text{**I**}$

$1367 + 1431 = \square \rightarrow \text{**P**}$

$3853 + 4430 = \square \rightarrow \text{**O**}$

$3013 + 1767 = \square \rightarrow \text{**B**}$

$829 + 1713 = \square \rightarrow \text{**D**}$

$4155 + 2456 = \square \rightarrow \text{**E**}$

$3668 + 3780 = \square \rightarrow \text{**A**}$

$2402 + 1907 = \square \rightarrow \text{**R**}$

$3365 + 2532 = \square \rightarrow \text{**L**}$

$5048 + 2616 = \square \rightarrow \text{**C**}$

$3277 + 1809 = \square \rightarrow \text{**H**}$

$2061 + 1044 = \square \rightarrow \text{**K**}$

$4005 + 2558 = \square \rightarrow \text{**S**}$

$4907 + 3874 = \square \rightarrow \text{**U**}$

$4047 + 2273 = \square \rightarrow \text{**N**}$

Scratch space:

CLUE 4

Subtraction

The bandit knocked over several chalk bowls, leaving only a few clean ones behind.

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

C																	
8011	6140	3216	8121	5990	8506	2562	2562	2117	8121	2488	8506	6140	2852	2852	2852	6140	3216

3779	1381	5963	8121	2488	2852	3399	6525	2488	6804	8735	2724	2117

$9931 - 1920 = \square \rightarrow \boxed{\text{C}}$

$5564 - 3076 = \square \rightarrow \boxed{\text{E}}$

$7946 - 1983 = \square \rightarrow \boxed{\text{S}}$

$6262 - 3538 = \square \rightarrow \boxed{\text{N}}$

$13153 - 4418 = \square \rightarrow \boxed{\text{I}}$

$8035 - 2045 = \square \rightarrow \boxed{\text{Y}}$

$9933 - 3408 = \square \rightarrow \boxed{\text{B}}$

$6345 - 4964 = \square \rightarrow \boxed{\text{A}}$

$5710 - 2858 = \square \rightarrow \boxed{\text{F}}$

$6390 - 3828 = \square \rightarrow \boxed{\text{O}}$

$10985 - 2479 = \square \rightarrow \boxed{\text{P}}$

$4922 - 1523 = \square \rightarrow \boxed{\text{T}}$

$6539 - 2760 = \square \rightarrow \boxed{\text{W}}$

$12045 - 3924 = \square \rightarrow \boxed{\text{L}}$

$9009 - 2205 = \square \rightarrow \boxed{\text{H}}$

$8669 - 2529 = \square \rightarrow \boxed{\text{U}}$

$3493 - 277 = \square \rightarrow \boxed{\text{R}}$

$6175 - 4058 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

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

We had to share the remaining dog treats equally among the puppy coaches to get their statements.

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:

$9 \div 1 = \boxed{}$

$60 \div 6 = \boxed{}$

$55 \div 11 = \boxed{}$

$2 \div 1 = \boxed{}$

$12 \div 2 = \boxed{}$

$22 \div 2 = \boxed{}$

$30 \div 10 = \boxed{}$

$44 \div 11 = \boxed{}$

$21 \div 3 = \boxed{}$

$6 \div 6 = \boxed{}$

$120 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain did a back handspring, then tossed a plush dumbbell.
2. The villain spun in a cartwheel, then shredded a crinkly tug rope.
3. The villain spun in a cartwheel, then chewed a noisy rubber bone.
4. The villain performed a giant swing, then chewed a noisy rubber bone.
5. The villain spun in a cartwheel, then rolled a bouncing treat ball.
6. The villain did a back handspring, then shredded a crinkly tug rope.
7. The villain balanced on the beam, then shredded a crinkly tug rope.
8. The villain pulled off a double front flip, then tossed a plush dumbbell.
9. The villain spun in a cartwheel, then dropped a squeaky tennis ball.
10. The villain performed a giant swing, then shredded a crinkly tug rope.
11. The villain balanced on the beam, then dropped a squeaky tennis ball.
12. The villain balanced on the beam, then chewed a noisy rubber bone.

Answer Key

The Gymnastic Paw Trophy Caper

Culprit: Tucker

Double Front Flip · Plush Dumbbell · Left Paw First · Curly Poodle Puff · Peanut Butter Smell

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT USE A NOISY RUBBER BONE"

$9 \times 7 = 63$ (T) · $4 \times 12 = 48$ (Y) · $11 \times 4 = 44$ (E) · $7 \times 8 = 56$ (B) · $1 \times 7 = 7$ (D) · $9 \times 3 = 27$ (A) · $12 \times 7 = 84$ (O) · $1 \times 3 = 3$ (S) · $9 \times 5 = 45$ (N) · $6 \times 4 = 24$ (H) · $5 \times 3 = 15$ (U) · $7 \times 4 = 28$ (R) · $10 \times 5 = 50$ (I)

Clue 2 (Rounding): "THE VILLAIN LANDED ON THEIR LEFT PAW"

Round 126 to the nearest ten = 130 (T) · Round 291 to the nearest ten = 290 (F) · Round 366 to the nearest ten = 370 (D) · Round 2,260 to the nearest hundred = 2300 (W) · Round 200 to the nearest hundred = 200 (E) · Round 1,109 to the nearest hundred = 1100 (O) · Round 426 to the nearest ten = 430 (V) · Round 16 to the nearest ten = 20 (I) · Round 1,743 to the nearest hundred = 1700 (A) · Round 90 to the nearest ten = 90 (L) · Round 4,959 to the nearest thousand = 5000 (H) · Round 715 to the nearest hundred = 700 (N) · Round 2,864 to the nearest hundred = 2900 (P) · Round 3,070 to the nearest thousand = 3000 (R)

Clue 3 (Addition): "THE PUP STOPPED TO LICK PEANUT BUTTER"

$3466 + 4281 = 7747$ (T) · $2380 + 1730 = 4110$ (I) · $1367 + 1431 = 2798$ (P) · $3853 + 4430 = 8283$ (O) · $3013 + 1767 = 4780$ (B) · $829 + 1713 = 2542$ (D) · $4155 + 2456 = 6611$ (E) · $3668 + 3780 = 7448$ (A) · $2402 + 1907 = 4309$ (R) · $3365 + 2532 = 5897$ (L) · $5048 + 2616 = 7664$ (C) · $3277 + 1809 = 5086$ (H) · $2061 + 1044 = 3105$ (K) · $4005 + 2558 = 6563$ (S) · $4907 + 3874 = 8781$ (U) · $4047 + 2273 = 6320$ (N)

Clue 4 (Subtraction): "CURLY POODLE PUFF FUR WAS LEFT BEHIND"

$9931 - 1920 = 8011$ (C) · $5564 - 3076 = 2488$ (E) · $7946 - 1983 = 5963$ (S) · $6262 - 3538 = 2724$ (N) · $13153 - 4418 = 8735$ (I) · $8035 - 2045 = 5990$ (Y) · $9933 - 3408 = 6525$ (B) · $6345 - 4964 = 1381$ (A) · $5710 - 2858 = 2852$ (F) · $6390 - 3828 = 2562$ (O) · $10985 - 2479 = 8506$ (P) · $4922 - 1523 = 3399$ (T) · $6539 - 2760 = 3779$ (W) · $12045 - 3924 = 8121$ (L) · $9009 - 2205 = 6804$ (H) · $8669 - 2529 = 6140$ (U) · $3493 - 277 = 3216$ (R) · $6175 - 4058 = 2117$ (D)

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

$9 \div 1 = 9$ · $60 \div 6 = 10$ · $55 \div 11 = 5$ · $2 \div 1 = 2$ · $12 \div 2 = 6$ · $22 \div 2 = 11$ · $30 \div 10 = 3$ · $44 \div 11 = 4$ · $21 \div 3 = 7$ · $6 \div 6 = 1$ · $120 \div 10 = 12$