



The Jurassic Kitty Cup Mystery

Grade 5 math · Subtraction, Rounding, Addition, Place value, Division · Reading level grades 3-4

Detective: _____ Date: _____

Right before the final match at Prehistoric Meow Stadium, someone swapped the Golden Cat-Nip Trophy with a giant fossilized dinosaur egg! Help Head Referee Rex solve the math clues and identify the culprit before kickoff.

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 Dino-Cat Mascot is _____

Possible suspects

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

NAME	SPECIAL SHOT	CAT-DINO GEAR	KICKING FOOT	FUR COLOR	DISTRACTION
Saber Sam	Raptor Pounce Kick	Fossilized Whistle	Left Footed	Tabby Striped	Squeaky Mouse Ball
T-Rex Timmy	Raptor Pounce Kick	Pounce Shin Guards	Left Footed	Saber Black	Catnip Scent
Sam Mew-is	Stego Spine Volley	Pounce Shin Guards	Left Footed	Tabby Striped	Squeaky Mouse Ball
Suni Paw	Stego Spine Volley	Spiky Cleats	Left Footed	Saber Black	Squeaky Mouse Ball
Dino Diego	T-Rex Tail Blast	Fossilized Whistle	Right Footed	Calico Orange	Catnip Scent
Barnaby Whiskers	Raptor Pounce Kick	Pounce Shin Guards	Left Footed	Tabby Striped	Shiny Laser Dot
Erling Paw-land	Tri-Horn Header	Jungle Tail Ribbon	Left Footed	Saber Black	Squeaky Mouse Ball
Felix Fluff	Tri-Horn Header	Spiky Cleats	Left Footed	Calico Orange	Shiny Laser Dot
Mia Hamm-tail	Tri-Horn Header	Laser Pointer Cap	Left Footed	Saber Black	Squeaky Mouse Ball
Cat-sper Schmeichel	Saber Tooth Strike	Spiky Cleats	Left Footed	Saber Black	Squeaky Mouse Ball
Kylian Meow-ppe	Saber Tooth Strike	Spiky Cleats	Right Footed	Saber Black	Squeaky Mouse Ball
Jurgen Caten-clow	Tri-Horn Header	Fossilized Whistle	Left Footed	Calico Orange	Catnip Scent
Trice-Tanya	Stego Spine Volley	Pounce Shin Guards	Right Footed	Tabby Striped	Catnip Scent
Megan Ra-pounce-oe	T-Rex Tail Blast	Pounce Shin Guards	Left Footed	Tabby Striped	Shiny Laser Dot
Cleo Pounce	T-Rex Tail Blast	Pounce Shin Guards	Left Footed	Saber Black	Catnip Scent
Marta Cat-claw	Saber Tooth Strike	Pounce Shin Guards	Left Footed	Tabby Striped	Squeaky Mouse Ball
Veloci-Vince	T-Rex Tail Blast	Jungle Tail Ribbon	Left Footed	Saber Black	Squeaky Mouse Ball
Alex Purr-gan	T-Rex Tail Blast	Pounce Shin Guards	Left Footed	Calico Orange	Squeaky Mouse Ball
Cristiano Ro-purr-to	T-Rex Tail Blast	Spiky Cleats	Right Footed	Tabby Striped	Squeaky Mouse Ball
Mohamed Sa-litter	Tri-Horn Header	Pounce Shin Guards	Left Footed	Saber Black	Shiny Laser Dot
Pel-paw	Saber Tooth Strike	Fossilized Whistle	Left Footed	Tabby Striped	Squeaky Mouse Ball

CLUE 1 Subtraction

Referee Rex subtracted the stolen soccer balls from the equipment pile to figure out how many items were missing.

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

T														
2140	6979	1325	5279	5763	7918	7918	5900	5763	1789	6979	5900	3511	1789	3897
									T					
7918	5900	3511	1325	2733	8609	3897	5763	1789	2140	1325	2733	2389	5900	8609

$$6987 - 4847 = \square \rightarrow \boxed{\text{T}}$$

$$4589 - 2800 = \square \rightarrow \boxed{\text{N}}$$

$$8297 - 4786 = \square \rightarrow \boxed{\text{S}}$$

$$7018 - 39 = \square \rightarrow \boxed{\text{H}}$$

$$10841 - 2232 = \square \rightarrow \boxed{\text{P}}$$

$$6560 - 660 = \square \rightarrow \boxed{\text{A}}$$

$$3841 - 1108 = \square \rightarrow \boxed{\text{R}}$$

$$7152 - 1873 = \square \rightarrow \boxed{\text{V}}$$

$$3266 - 1941 = \square \rightarrow \boxed{\text{E}}$$

$$11675 - 3757 = \square \rightarrow \boxed{\text{L}}$$

$$9143 - 3380 = \square \rightarrow \boxed{\text{I}}$$

$$5564 - 1667 = \square \rightarrow \boxed{\text{O}}$$

$$6626 - 4237 = \square \rightarrow \boxed{\text{C}}$$

Scratch space:

CLUE 2 Rounding

The stadium scoreboard could not show exact attendance so the security system rounded the crowd count to the nearest hundred.

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

T																T	
170	90	9000	130	1300	9000	1100	430	30	130	20	130	110	9000	230	170		
								T				T				T	
430	70	230	430	9000	7000	50	70	170	90	290	9000	4300	170	4300	5000	5000	170

Round 169 to the nearest ten → **T**

Round 111 to the nearest ten → **P**

Round 6,961 to the nearest thousand → **D**

Round 292 to the nearest ten → **L**

Round 28 to the nearest ten → **Y**

Round 129 to the nearest ten → **S**

Round 54 to the nearest ten → **W**

Round 18 to the nearest ten → **U**

Round 1,303 to the nearest hundred → **N**

Round 92 to the nearest ten → **H**

Round 4,987 to the nearest thousand → **O**

Round 71 to the nearest ten → **I**

Round 1,120 to the nearest hundred → **A**

Round 9,191 to the nearest thousand → **E**

Round 432 to the nearest ten → **K**

Round 233 to the nearest ten → **C**

Round 4,317 to the nearest hundred → **F**

Scratch space:

CLUE 3 Addition

Coach Meowser added up all the training cones and cat dino flags found near the team bench.

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

T																
2157	8305	8256	9462	3800	8789	8789	2170	3800	6145	2401	8305	2170	3663	8256	3644	2170
3663	3768	7010	8256	2170	2630	3950	8941	4657	7010	3663	8256	2386	2170	8789	8789	

1114 + 1043 = → T	2513 + 1287 = → I	2408 + 1542 = → Y
4694 + 4768 = → V	4524 + 4417 = → M	2229 + 3916 = → N
4164 + 4625 = → L	1606 + 1024 = → K	4848 + 3457 = → H
913 + 1488 = → C	2098 + 2559 = → O	1270 + 2374 = → D
1492 + 678 = → A	3246 + 3764 = → U	1122 + 1264 = → B
3492 + 4764 = → E	2394 + 1269 = → S	1348 + 2420 = → Q

Scratch space:

CLUE 4 Place value

The stat keeper analyzed the digit in the tens place on the locker room keypad to unlock the camera footage.

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

100 70 50 500 80 50 600 70 8000 300 3000 700 80 7000 70 100

600 500 3000 9000 5000 500 70 80 9000 40 500 20 800 70 600 1000 800 100 9000

What is the value of the 1 in 392,153? → **S**

What is the value of the 7 in 857,066? → **W**

What is the value of the 1 in 81,799? → **P**

What is the value of the 3 in 203,698? → **F**

What is the value of the 5 in 15,892? → **N**

What is the value of the 8 in 43,867? → ☐

What is the value of the 2 in 335,424? → **G**

What is the value of the 4 in 85,545? → **H**

What is the value of the 6 in 79,650? → **L**

What is the value of the 9 in 69,582? → **T**

What is the value of the 3 in 770,318? → **K**

What is the value of the 7 in 506,786? → **U**

What is the value of the 8 in 98,793? → **C**

What is the value of the 7 in 44,475? → **A**

What is the value of the 5 in 867,592? → **E**

What is the value of the 8 in 477,387? → **R**

What is the value of the 5 in 446,659? → **B**

Scratch space:

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

The referee divided the energy treats equally among the kitten ball retrievers to trace who was in the tunnel.

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:

$5 \div 1 = \boxed{}$

$30 \div 5 = \boxed{}$

$132 \div 11 = \boxed{}$

$8 \div 1 = \boxed{}$

$77 \div 7 = \boxed{}$

$8 \div 2 = \boxed{}$

$33 \div 11 = \boxed{}$

$2 \div 1 = \boxed{}$

$72 \div 8 = \boxed{}$

$63 \div 9 = \boxed{}$

$5 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain curled a stego spine volley, then blew a fossilized whistle.
2. The villain blasted a t-rex tail shot, then adjusted a laser pointer cap.
3. The villain curled a stego spine volley, then adjusted a laser pointer cap.
4. The villain launched a saber tooth strike, then strapped on pounce shin guards.
5. The villain launched a saber tooth strike, then scuffed the turf with spiky cleats.
6. The villain blasted a t-rex tail shot, then flapped a jungle tail ribbon.
7. The villain blasted a t-rex tail shot, then scuffed the turf with spiky cleats.
8. The villain curled a stego spine volley, then strapped on pounce shin guards.
9. The villain blasted a t-rex tail shot, then strapped on pounce shin guards.
10. The villain headered the ball with tri-horns, then flapped a jungle tail ribbon.
11. The villain blasted a t-rex tail shot, then blew a fossilized whistle.
12. The villain curled a stego spine volley, then scuffed the turf with spiky cleats.

Answer Key

The Jurassic Kitty Cup Mystery

Culprit: Erling Paw-land

Tri-Horn Header · Jungle Tail Ribbon · Left Footed · Saber Black · Squeaky Mouse Ball

Trail: Start 21 → Clue 1 20 → Clue 2 16 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE VILLAIN HAS NO LASER POINTER CAP"

$6987 - 4847 = 2140$ (T) · $4589 - 2800 = 1789$ (N) · $8297 - 4786 = 3511$ (S) · $7018 - 39 = 6979$ (H) · $10841 - 2232 = 8609$ (P) · $6560 - 660 = 5900$ (A) · $3841 - 1108 = 2733$ (R) · $7152 - 1873 = 5279$ (V) · $3266 - 1941 = 1325$ (E) · $11675 - 3757 = 7918$ (L) · $9143 - 3380 = 5763$ (I) · $5564 - 1667 = 3897$ (O) · $6626 - 4237 = 2389$ (C)

Clue 2 (Rounding): "THE SNEAKY SUSPECT KICKED WITH LEFT FOOT"

Round 169 to the nearest ten = 170 (T) · Round 111 to the nearest ten = 110 (P) · Round 6,961 to the nearest thousand = 7000 (D) · Round 292 to the nearest ten = 290 (L) · Round 28 to the nearest ten = 30 (Y) · Round 129 to the nearest ten = 130 (S) · Round 54 to the nearest ten = 50 (W) · Round 18 to the nearest ten = 20 (U) · Round 1,303 to the nearest hundred = 1300 (N) · Round 92 to the nearest ten = 90 (H) · Round 4,987 to the nearest thousand = 5000 (O) · Round 71 to the nearest ten = 70 (I) · Round 1,120 to the nearest hundred = 1100 (A) · Round 9,191 to the nearest thousand = 9000 (E) · Round 432 to the nearest ten = 430 (K) · Round 233 to the nearest ten = 230 (C) · Round 4,317 to the nearest hundred = 4300 (F)

Clue 3 (Addition): "THE VILLAIN CHASED A SQUEAKY MOUSE BALL"

$1114 + 1043 = 2157$ (T) · $2513 + 1287 = 3800$ (I) · $2408 + 1542 = 3950$ (Y) · $4694 + 4768 = 9462$ (V) · $4524 + 4417 = 8941$ (M) · $2229 + 3916 = 6145$ (N) · $4164 + 4625 = 8789$ (L) · $1606 + 1024 = 2630$ (K) · $4848 + 3457 = 8305$ (H) · $913 + 1488 = 2401$ (C) · $2098 + 2559 = 4657$ (O) · $1270 + 2374 = 3644$ (D) · $1492 + 678 = 2170$ (A) · $3246 + 3764 = 7010$ (U) · $1122 + 1264 = 2386$ (B) · $3492 + 4764 = 8256$ (E) · $2394 + 1269 = 3663$ (S) · $1348 + 2420 = 3768$ (Q)

Clue 4 (Place value): "SABER BLACK FUR WAS LEFT NEAR THE GOAL POST"

What is the value of the 1 in 392,153? = 100 (S) · What is the value of the 7 in 857,066? = 7000 (W) · What is the value of the 1 in 81,799? = 1000 (P) · What is the value of the 3 in 203,698? = 3000 (F) · What is the value of the 5 in 15,892? = 5000 (N) · What is the value of the 8 in 43,867? = 800 (O) · What is the value of the 2 in 335,424? = 20 (G) · What is the value of the 4 in 85,545? = 40 (H) · What is the value of the 6 in 79,650? = 600 (L) · What is the value of the 9 in 69,582? = 9000 (T) · What is the value of the 3 in 770,318? = 300 (K) · What is the value of the 7 in 506,786? = 700 (U) · What is the value of the 8 in 98,793? = 8000 (C) · What is the value of the 7 in 44,475? = 70 (A) · What is the value of the 5 in 867,592? = 500 (E) · What is the value of the 8 in 477,387? = 80 (R) · What is the value of the 5 in 446,659? = 50 (B)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Erling Paw-land

$5 \div 1 = 5$ · $30 \div 5 = 6$ · $132 \div 11 = 12$ · $8 \div 1 = 8$ · $77 \div 7 = 11$ · $8 \div 2 = 4$ · $33 \div 11 = 3$ · $2 \div 1 = 2$ · $72 \div 8 = 9$ · $63 \div 9 = 7$ · $5 \div 5 = 1$