



The Spooky Bowl Cat-astrophe

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

Detective: _____ Date: _____

Someone stole the glowing Golden Whistle right before the Spooky Bowl kickoff at Pumpkin Stadium! The stadium is packed with festive felines. Solve the math clues to uncover the mysterious cat behind the mischief.

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 Whistle Snatcher is _____

Possible suspects

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

NAME	FOOTBALL MOVE	SPOOKY POWER	DOMINANT PAW	FUR PATTERN	DISTRACTION
Oliver Snap	Tail Tackle	Potion Blast	Right Pawed	Calico Fur	Catnip Spray
Oreo Mascot	Furry Fumble	Glow Stare	Left Pawed	Calico Fur	Catnip Spray
Paws Manning	Pumpkin Rush	Shadow Dash	Left Pawed	Orange Tabby	Squeaky Toy
Shadow Cleat	Pumpkin Rush	Shadow Dash	Right Pawed	Orange Tabby	Catnip Spray
Garfield Stripe	Tail Tackle	Glow Stare	Right Pawed	Calico Fur	Catnip Spray
Lucy Sideline	Furry Fumble	Shadow Dash	Right Pawed	Calico Fur	Laser Pointer
Bandit Intercept	Tail Tackle	Shadow Dash	Right Pawed	Calico Fur	Catnip Spray
Milo Blitz	Midnight Pass	Potion Blast	Right Pawed	Black Fur	Squeaky Toy
Chloe Snap	Pumpkin Rush	Potion Blast	Left Pawed	Orange Tabby	Catnip Spray
Sylvester Pounce	Claw Kick	Ghost Leap	Right Pawed	Calico Fur	Squeaky Toy
Tiger Tailgate	Claw Kick	Potion Blast	Right Pawed	Orange Tabby	Squeaky Toy
Bella Punt	Pumpkin Rush	Potion Blast	Left Pawed	Black Fur	Catnip Spray
Felix Paw	Pumpkin Rush	Potion Blast	Left Pawed	Orange Tabby	Laser Pointer
Sassy Tail	Furry Fumble	Bat Flight	Right Pawed	Black Fur	Catnip Spray
Luna Helmet	Claw Kick	Potion Blast	Right Pawed	Black Fur	Catnip Spray
Leo Endzone	Claw Kick	Bat Flight	Left Pawed	Orange Tabby	Catnip Spray
Smokey Mascot	Tail Tackle	Bat Flight	Right Pawed	Calico Fur	Catnip Spray
Simba Tackle	Claw Kick	Glow Stare	Right Pawed	Calico Fur	Catnip Spray
Jasper Huddle	Tail Tackle	Glow Stare	Left Pawed	Black Fur	Laser Pointer
Nala Rush	Tail Tackle	Potion Blast	Left Pawed	Calico Fur	Laser Pointer
Gizmo Fumble	Midnight Pass	Glow Stare	Right Pawed	Black Fur	Catnip Spray

CLUE 1

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

A number line from 0 to 10,000. The line is divided into 10 equal segments by 11 vertical tick marks. Below each tick mark is a box for a number. The first box (0) contains the number 6000 and is highlighted in orange. The other boxes are empty. Below the boxes are labels for each tick mark: 6000, 80, 1000, 10, 9000, 300, 300, 4000, 9000, 3000, 700, 90, 1000, 20, 3000, 90, 6000. The labels 6000, 80, 1000, 700, 90, 1000, 20, 3000, 90, 6000 are in orange, while the others are in black.

6000	80	1000	10	9000	300	300	4000	9000	3000	700	90	1000	20	3000	90	6000
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What is the value of the 6 in 16,045? → **T**

What is the value of the 3 in 3,606? → **N**

What is the value of the 3 in 4,349? → **L**

What is the value of the 1 in 104? → **U**

What is the value of the 7 in 4,734? → **D**

What is the value of the 2 in 926? → **S**

What is the value of the 4 in 4,330? → **A**

What is the value of the 8 in 4,807? → **W**

What is the value of the 1 in 41,578? → **E**

What is the value of the 1 in 919? → **V**

What is the value of the 9 in 197? → **0**

What is the value of the 8 in 3,186? → **H**

What is the value of the 9 in 9,417? →

Scratch space:

CLUE 2 Addition

Check the stadium snack stand receipts. Add up the pumpkin fish treats bought before kickoff to find the next clue.

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

W									W								W
768	396	398	227	834	690	690	690	206	768	899	396	452	837	398	310	206	768
310	899	396	227	398	690	206	398	398	837	834	758	396	227	834			

$315 + 453 = \boxed{} \rightarrow \boxed{\text{W}}$

$96 + 110 = \boxed{} \rightarrow \boxed{\text{A}}$

$205 + 193 = \boxed{} \rightarrow \boxed{\text{T}}$

$408 + 350 = \boxed{} \rightarrow \boxed{\text{L}}$

$232 + 220 = \boxed{} \rightarrow \boxed{\text{G}}$

$120 + 190 = \boxed{} \rightarrow \boxed{\text{P}}$

$378 + 312 = \boxed{} \rightarrow \boxed{\text{S}}$

$549 + 285 = \boxed{} \rightarrow \boxed{\text{E}}$

$482 + 355 = \boxed{} \rightarrow \boxed{\text{H}}$

$373 + 526 = \boxed{} \rightarrow \boxed{\text{R}}$

$138 + 258 = \boxed{} \rightarrow \boxed{\text{I}}$

$99 + 128 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3
Subtraction

Measure the yard lines on the field. Subtract the distance from the end zone to find where the thief dropped evidence.

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

D					D									D	
169	477	640	477	373	169	477	482	754	546	482	770	135	477	169	770

				D													
175	456	366	586	169	366	640	175	770	437	373	333	546	754	546	482	770	135

$522 - 353 = \square \rightarrow \boxed{\text{D}}$

$954 - 368 = \square \rightarrow \boxed{\text{U}}$

$634 - 152 = \square \rightarrow \boxed{\text{R}}$

$396 - 63 = \square \rightarrow \boxed{\text{I}}$

$415 - 280 = \square \rightarrow \boxed{\text{Y}}$

$912 - 272 = \square \rightarrow \boxed{\text{F}}$

$539 - 166 = \square \rightarrow \boxed{\text{N}}$

$975 - 221 = \square \rightarrow \boxed{\text{S}}$

$612 - 135 = \square \rightarrow \boxed{\text{E}}$

$437 - 262 = \square \rightarrow \boxed{\text{C}}$

$756 - 390 = \square \rightarrow \boxed{\text{O}}$

$1133 - 363 = \square \rightarrow \boxed{\text{A}}$

$472 - 16 = \square \rightarrow \boxed{\text{L}}$

$541 - 104 = \square \rightarrow \boxed{\text{T}}$

$841 - 295 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 4 Rounding

Look at the stadium scoreboard digital timer. The broken clock only shows rounded yardage totals to give away a secret.

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

C				C															
2000	500	6000	40	2000	90	700	4000	400	5000	500	9000	700	90	4000	20	30	90	20	
8000	7000	200	8000	400	90	300	7000	3000	9000	8000	500	20	30						

Round 2,360 to the nearest thousand → **C**

Round 31 to the nearest ten → **D**

Round 211 to the nearest hundred → **E**

Round 440 to the nearest hundred → **R**

Round 9,166 to the nearest thousand → **S**

Round 3,062 to the nearest thousand → **Y**

Round 7,596 to the nearest thousand → **T**

Round 722 to the nearest hundred → **F**

Round 18 to the nearest ten → **N**

Round 5,170 to the nearest thousand → **W**

Round 6,035 to the nearest thousand → **L**

Round 4,391 to the nearest thousand → **U**

Round 491 to the nearest hundred → **A**

Round 42 to the nearest ten → **I**

Round 311 to the nearest hundred → **P**

Round 88 to the nearest ten → **O**

Round 7,206 to the nearest thousand → **H**

Scratch space:

CLUE 5**Missing addends - the last clue**

Count the spooky football helmets on the rack. Solve for the missing number of helmets to reveal the final witness report.

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:

$10 + \underline{\quad} = 14$

$9 + \underline{\quad} = 20$

$1 + \underline{\quad} = 13$

$2 + \underline{\quad} = 10$

$6 + \underline{\quad} = 11$

$10 + \underline{\quad} = 17$

$10 + \underline{\quad} = 11$

$1 + \underline{\quad} = 3$

$10 + \underline{\quad} = 16$

$5 + \underline{\quad} = 15$

$9 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain threw a midnight pass, then vanished with a ghost leap.
2. The villain scored with a furry fumble, then zapped cameras with a potion blast.
3. The villain delivered a claw kick, then blended into shadow dash.
4. The villain delivered a claw kick, then blinded guards with glow stare.
5. The villain scored with a furry fumble, then escaped using bat flight.
6. The villain delivered a claw kick, then vanished with a ghost leap.
7. The villain threw a midnight pass, then blinded guards with glow stare.
8. The villain delivered a claw kick, then escaped using bat flight.
9. The villain executed a tail tackle, then zapped cameras with a potion blast.
10. The villain ran a pumpkin rush, then blended into shadow dash.
11. The villain executed a tail tackle, then blinded guards with glow stare.
12. The villain executed a tail tackle, then escaped using bat flight.

Answer Key

The Spooky Bowl Cat-astrophe

Culprit: Oliver Snap

Tail Tackle · Potion Blast · Right Pawed · Calico Fur · Catnip Spray

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE SHADOW DASH"

What is the value of the 6 in 16,045? = 6000 (T) · What is the value of the 3 in 3,606? = 3000 (N) · What is the value of the 3 in 4,349? = 300 (L) · What is the value of the 1 in 104? = 100 (U) · What is the value of the 7 in 4,734? = 700 (D) · What is the value of the 2 in 926? = 20 (S) · What is the value of the 4 in 4,330? = 4000 (A) · What is the value of the 8 in 4,807? = 800 (W) · What is the value of the 1 in 41,578? = 1000 (E) · What is the value of the 1 in 919? = 10 (V) · What is the value of the 9 in 197? = 90 (O) · What is the value of the 8 in 3,186? = 80 (H) · What is the value of the 9 in 9,417? = 9000 (I)

Clue 2 (Addition): "WITNESS SAW RIGHT PAW PRINTS AT THE LINE"

$315 + 453 = 768$ (W) · $96 + 110 = 206$ (A) · $205 + 193 = 398$ (T) · $408 + 350 = 758$ (L) · $232 + 220 = 452$ (G) · $120 + 190 = 310$ (P) · $378 + 312 = 690$ (S) · $549 + 285 = 834$ (E) · $482 + 355 = 837$ (H) · $373 + 526 = 899$ (R) · $138 + 258 = 396$ (I) · $99 + 128 = 227$ (N)

Clue 3 (Subtraction): "DEFENDER SPRAYED A CLOUD OF CATNIP SPRAY"

$522 - 353 = 169$ (D) · $954 - 368 = 586$ (U) · $634 - 152 = 482$ (R) · $396 - 63 = 333$ (I) · $415 - 280 = 135$ (Y) · $912 - 272 = 640$ (F) · $539 - 166 = 373$ (N) · $975 - 221 = 754$ (S) · $612 - 135 = 477$ (E) · $437 - 262 = 175$ (C) · $756 - 390 = 366$ (O) · $1133 - 363 = 770$ (A) · $472 - 16 = 456$ (L) · $541 - 104 = 437$ (T) · $841 - 295 = 546$ (P)

Clue 4 (Rounding): "CALICO FUR WAS FOUND ON THE TROPHY STAND"

Round 2,360 to the nearest thousand = 2000 (C) · Round 31 to the nearest ten = 30 (D) · Round 211 to the nearest hundred = 200 (E) · Round 440 to the nearest hundred = 400 (R) · Round 9,166 to the nearest thousand = 9000 (S) · Round 3,062 to the nearest thousand = 3000 (Y) · Round 7,596 to the nearest thousand = 8000 (T) · Round 722 to the nearest hundred = 700 (F) · Round 18 to the nearest ten = 20 (N) · Round 5,170 to the nearest thousand = 5000 (W) · Round 6,035 to the nearest thousand = 6000 (L) · Round 4,391 to the nearest thousand = 4000 (U) · Round 491 to the nearest hundred = 500 (A) · Round 42 to the nearest ten = 40 (I) · Round 311 to the nearest hundred = 300 (P) · Round 88 to the nearest ten = 90 (O) · Round 7,206 to the nearest thousand = 7000 (H)

Clue 5 (Missing addends): surviving statement is box 9 → Oliver Snap

$10 + \underline{\quad} = 14 = 4$ · $9 + \underline{\quad} = 20 = 11$ · $1 + \underline{\quad} = 13 = 12$ · $2 + \underline{\quad} = 10 = 8$ · $6 + \underline{\quad} = 11 = 5$ · $10 + \underline{\quad} = 17 = 7$ · $10 + \underline{\quad} = 11 = 1$ · $1 + \underline{\quad} = 3 = 2$ · $10 + \underline{\quad} = 16 = 6$ · $5 + \underline{\quad} = 15 = 10$ · $9 + \underline{\quad} = 12 = 3$