



The Great Soccer Cup Cat-tastrophe

Grade 6 math · Addition, Subtraction, Percentages, Exponents, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Just before the whistle blew for the Purr-mier League final, the Golden Salmon Trophy went missing! A sneaky player has swiped the prize. Grab your clipboard, tally up the stats, and help us find the thief before the post-game ceremony!

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 cat burglar striker is _____

Possible suspects

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

NAME	SIGNATURE MOVE	LUCKY GEAR	DOMINANT FOOT	FUR PATTERN	SECRET DISTRACTION
Luka Claw-dric	Yarn Ball Dribble	Golden Whistle Charm	Kicks Right-Footed	Calico Patch Fur	Tasty Tuna Treat
Lucy Bronze-tail	Purr-fect Tackle	Glow-in-the-Dark Cleats	Kicks Left-Footed	Sleek Tuxedo Fur	Crinkly Foil Ball
Robert Lewan-claw-ski	Super Jump Header	Squeaky Soccer Ball	Kicks Right-Footed	Calico Patch Fur	Tasty Tuna Treat
Christian Pu-lick-sic	Catnip Speed Boost	Spiked Shin Guards	Kicks Right-Footed	Sleek Tuxedo Fur	Spray Water Bottle
Miawprap Rapinoe	Laser Pointer Dash	Golden Whistle Charm	Kicks Right-Footed	Tabby Stripe Fur	Spray Water Bottle
Son Heung-purr	Purr-fect Tackle	Squeaky Soccer Ball	Kicks Right-Footed	Calico Patch Fur	Spray Water Bottle
Erling Ha-land-cat	Catnip Speed Boost	Spiked Shin Guards	Kicks Left-Footed	Tabby Stripe Fur	Crinkly Foil Ball
Purr-lo Cannavaro	Purr-fect Tackle	Golden Whistle Charm	Kicks Left-Footed	Sleek Tuxedo Fur	Tasty Tuna Treat
Mo Scratch-alah	Yarn Ball Dribble	Glow-in-the-Dark Cleats	Kicks Right-Footed	Sleek Tuxedo Fur	Tasty Tuna Treat
Zlatan Ibra-meow-vic	Super Jump Header	Fish-Flavored Energy Drink	Kicks Left-Footed	Tabby Stripe Fur	Crinkly Foil Ball
Neymar Junior-purr	Yarn Ball Dribble	Squeaky Soccer Ball	Kicks Right-Footed	Tabby Stripe Fur	Spray Water Bottle
Claw-dio Reyna	Catnip Speed Boost	Golden Whistle Charm	Kicks Left-Footed	Calico Patch Fur	Spray Water Bottle
Sadio Meow-ne	Purr-fect Tackle	Glow-in-the-Dark Cleats	Kicks Left-Footed	Sleek Tuxedo Fur	Spray Water Bottle
Marcus Paw-shford	Laser Pointer Dash	Squeaky Soccer Ball	Kicks Right-Footed	Calico Patch Fur	Tasty Tuna Treat
Claw-dia Meowpinor	Super Jump Header	Spiked Shin Guards	Kicks Right-Footed	Calico Patch Fur	Tasty Tuna Treat
Bukayo Whiskers	Laser Pointer Dash	Fish-Flavored Energy Drink	Kicks Right-Footed	Calico Patch Fur	Tasty Tuna Treat
Harry Kitten	Yarn Ball Dribble	Spiked Shin Guards	Kicks Right-Footed	Calico Patch Fur	Crinkly Foil Ball
Paw-gogba	Catnip Speed Boost	Squeaky Soccer Ball	Kicks Right-Footed	Tabby Stripe Fur	Spray Water Bottle
Karim Ben-claw-ma	Catnip Speed Boost	Golden Whistle Charm	Kicks Right-Footed	Calico Patch Fur	Crinkly Foil Ball
David Purr-ckham	Catnip Speed Boost	Squeaky Soccer Ball	Kicks Left-Footed	Calico Patch Fur	Tasty Tuna Treat
Lionel Meowssi	Yarn Ball Dribble	Squeaky Soccer Ball	Kicks Left-Footed	Calico Patch Fur	Crinkly Foil Ball

CLUE 1 Addition

We found some muddy training gear left near the trophy case. Adding together the orange cones and blue cones reveals our first big clue.

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

T																			
9581	4936	2085	3684	4200	5029	5029	7439	4200	3847	7439	3684	6365	4200	3517	5991	9199	4200	5991	4936
2085	3847	2085	6958	7507	3213	3517	6958	4200	3847	8289									

$5009 + 4572 = \square \rightarrow \text{T}$	$3541 + 4748 = \square \rightarrow \text{K}$	$1154 + 2530 = \square \rightarrow \text{V}$
$4090 + 1901 = \square \rightarrow \text{S}$	$2319 + 5120 = \square \rightarrow \text{A}$	$5766 + 3433 = \square \rightarrow \text{F}$
$1931 + 3098 = \square \rightarrow \text{L}$	$1949 + 4416 = \square \rightarrow \text{O}$	$2270 + 5237 = \square \rightarrow \text{G}$
$2611 + 1589 = \square \rightarrow \text{I}$	$1921 + 3015 = \square \rightarrow \text{H}$	$1817 + 2030 = \square \rightarrow \text{N}$
$3801 + 3157 = \square \rightarrow \text{R}$	$1653 + 1864 = \square \rightarrow \text{D}$	$1877 + 1336 = \square \rightarrow \text{Y}$
$1304 + 781 = \square \rightarrow \text{E}$		

Scratch space:

CLUE 2

Subtraction

The ball bag was left open on the sideline. Subtracting the flat soccer balls from the shiny new ones points us to the suspect's kicking style.

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

T 2159	4398	7134	6532	8625	6532	3506	7134	1560	T 2159	1446	2966	1560	1446	6532	4562	2966	T 2159	4398
T 2159	4398	7134	1366	2966	1513	4398	T 2159	7020	8189	8189	T 2159							

2999 - 840 = → T	7911 - 4405 = → P	4635 - 1669 = → I
6135 - 4769 = → R	4939 - 3379 = → C	10354 - 3822 = → S
9959 - 2825 = → E	5462 - 3949 = → G	5043 - 3597 = → K
7312 - 2750 = → W	8208 - 1188 = → F	8709 - 520 = → O
9317 - 692 = → U	7517 - 3119 = → H	

Scratch space:

CLUE 3

Percentages

The stadium stat board tracked a high-speed sprint across the grass. Finding the exact percentage of completed passes uncovers the suspect's fur pattern.

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

L																	
8	5	28	2	15	37	2	36	38	12	15	37	35	15	35	27	15	21
15	5	29	35	15	28	2	35	15									

$25\% \text{ of } 32 = \square \rightarrow \boxed{\text{L}}$

$25\% \text{ of } 108 = \square \rightarrow \boxed{\text{S}}$

$10\% \text{ of } 360 = \square \rightarrow \boxed{\text{M}}$

$20\% \text{ of } 185 = \square \rightarrow \boxed{\text{H}}$

$20\% \text{ of } 105 = \square \rightarrow \boxed{\text{Y}}$

$25\% \text{ of } 116 = \square \rightarrow \boxed{\text{N}}$

$5\% \text{ of } 40 = \square \rightarrow \boxed{\text{E}}$

$50\% \text{ of } 70 = \square \rightarrow \boxed{\text{A}}$

$20\% \text{ of } 190 = \square \rightarrow \boxed{\text{W}}$

$60\% \text{ of } 25 = \square \rightarrow \boxed{\text{T}}$

$10\% \text{ of } 50 = \square \rightarrow \boxed{\text{U}}$

$50\% \text{ of } 56 = \square \rightarrow \boxed{\text{R}}$

$5\% \text{ of } 240 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4 Exponents

The suspect left a grid of pawprints on the tactical whiteboard. Squaring the number of rows gives us the key to finding their secret distraction.

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

C				C					C										
225	196	100	256	225	4	36	243	128	225	100	256	121	64	256	121	64	16	4	
			C																
16	125	289	225	4	128	121	289	128	36	100	196	64							

$15^2 = \square \rightarrow$ C	$5^3 = \square \rightarrow$ H	$2^7 = \square \rightarrow$ R	$2^2 = \square \rightarrow$ O
$4^2 = \square \rightarrow$ T	$11^2 = \square \rightarrow$ N	$17^2 = \square \rightarrow$ E	$14^2 = \square \rightarrow$ A
$3^5 = \square \rightarrow$ U	$16^2 = \square \rightarrow$ I	$6^2 = \square \rightarrow$ F	$10^2 = \square \rightarrow$ L
$2^6 = \square \rightarrow$ G			

Scratch space:

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

We need to divide our remaining catnip treats equally among the stadium security dogs to keep them happy. Doing this math reveals the suspect's signature move.

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:

$12 \div 4 = \boxed{}$

$15 \div 3 = \boxed{}$

$80 \div 10 = \boxed{}$

$54 \div 9 = \boxed{}$

$40 \div 10 = \boxed{}$

$99 \div 11 = \boxed{}$

$16 \div 8 = \boxed{}$

$120 \div 12 = \boxed{}$

$7 \div 7 = \boxed{}$

$14 \div 2 = \boxed{}$

$11 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain activates a catnip speed boost, then gulps down a fish-flavored energy drink.
2. The villain performs a super jump header, then gulps down a fish-flavored energy drink.
3. The villain dribbles a heavy yarn ball, then polishes a golden whistle charm.
4. The villain dribbles a heavy yarn ball, then flashes their glow-in-the-dark cleats.
5. The villain performs a super jump header, then squeaks a soccer ball down the field.
6. The villain activates a catnip speed boost, then squeaks a soccer ball down the field.
7. The villain slides in for a purr-fect tackle, then gulps down a fish-flavored energy drink.
8. The villain dashes after a laser pointer, then squeaks a soccer ball down the field.
9. The villain dashes after a laser pointer, then gulps down a fish-flavored energy drink.
10. The villain dashes after a laser pointer, then flashes their glow-in-the-dark cleats.
11. The villain dribbles a heavy yarn ball, then gulps down a fish-flavored energy drink.
12. The villain performs a super jump header, then adjusts their spiked shin guards.

Answer Key

The Great Soccer Cup Cat-tastrophe

Culprit: Claw-dia Meowpinor

Super Jump Header · Spiked Shin Guards · Kicks Right-Footed · Calico Patch Fur · Tasty Tuna Treat

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN AVOIDS FISH ENERGY DRINK"

$5009 + 4572 = 9581$ (T) · $3541 + 4748 = 8289$ (K) · $1154 + 2530 = 3684$ (V) · $4090 + 1901 = 5991$ (S) · $2319 + 5120 = 7439$ (A) · $5766 + 3433 = 9199$ (F) · $1931 + 3098 = 5029$ (L) · $1949 + 4416 = 6365$ (O) · $2270 + 5237 = 7507$ (G) · $2611 + 1589 = 4200$ (I) · $1921 + 3015 = 4936$ (H) · $1817 + 2030 = 3847$ (N) · $3801 + 3157 = 6958$ (R) · $1653 + 1864 = 3517$ (D) · $1877 + 1336 = 3213$ (Y) · $1304 + 781 = 2085$ (E)

Clue 2 (Subtraction): "THE SUSPECT KICKS WITH THE RIGHT FOOT"

$2999 - 840 = 2159$ (T) · $7911 - 4405 = 3506$ (P) · $4635 - 1669 = 2966$ (I) · $6135 - 4769 = 1366$ (R) · $4939 - 3379 = 1560$ (C) · $10354 - 3822 = 6532$ (S) · $9959 - 2825 = 7134$ (E) · $5462 - 3949 = 1513$ (G) · $5043 - 3597 = 1446$ (K) · $7312 - 2750 = 4562$ (W) · $8208 - 1188 = 7020$ (F) · $8709 - 520 = 8189$ (O) · $9317 - 692 = 8625$ (U) · $7517 - 3119 = 4398$ (H)

Clue 3 (Percentages): "LURE THEM WITH A TASTY TUNA TREAT"

25% of 32 = 8 (L) · 25% of 108 = 27 (S) · 10% of 360 = 36 (M) · 20% of 185 = 37 (H) · 20% of 105 = 21 (Y) · 25% of 116 = 29 (N) · 5% of 40 = 2 (E) · 50% of 70 = 35 (A) · 20% of 190 = 38 (W) · 60% of 25 = 15 (T) · 10% of 50 = 5 (U) · 50% of 56 = 28 (R) · 5% of 240 = 12 (I)

Clue 4 (Exponents): "CALICO FUR CLINGING TO THE CORNER FLAG"

$15^2 = 225$ (C) · $5^3 = 125$ (H) · $2^7 = 128$ (R) · $2^2 = 4$ (O) · $4^2 = 16$ (T) · $11^2 = 121$ (N) · $17^2 = 289$ (E) · $14^2 = 196$ (A) · $3^5 = 243$ (U) · $16^2 = 256$ (I) · $6^2 = 36$ (F) · $10^2 = 100$ (L) · $2^6 = 64$ (G)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Claw-dia Meowpinor

$12 \div 4 = 3$ · $15 \div 3 = 5$ · $80 \div 10 = 8$ · $54 \div 9 = 6$ · $40 \div 10 = 4$ · $99 \div 11 = 9$ · $16 \div 8 = 2$ · $120 \div 12 = 10$ · $7 \div 7 = 1$ · $14 \div 2 = 7$ · $11 \div 1 = 11$