The Golden Paw Trophy Heist

Grade 4 math · Addition, Multiplication, Rounding, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The stadium lights are bright, but disaster has struck before the big championship match! The glittering Golden Paw Trophy has been swiped right out of the display case. A sneaky soccer-playing feline left pawprints all over the field. Grab your detective gear, count up the clues, and help the team get their trophy back!

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 trophy thief is _____

Possible suspects

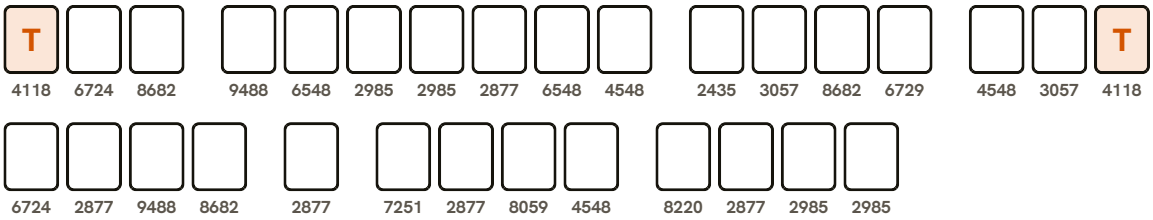
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SOCCER MOVE	CAT GEAR	DOMINANT FOOT	FUR PATTERN	DISTRACTION
Alex Meowgan	Diving Save	Laser Pointer	Right-footed kicker	Calico Fur	Squeaky Mouse
Marcus Scratchford	Power Header	Catnip Scent	Right-footed kicker	Tuxedo Coat	Squeaky Mouse
Chloe Clawly	Rainbow Flick	Golden Bell	Left-footed kicker	Tabby Stripes	Squeaky Mouse
Zlatan Pawhimovic	Rainbow Flick	Yarn Ball	Left-footed kicker	Calico Fur	Spray Bottle
Kylian Meowppe	Rainbow Flick	Catnip Scent	Left-footed kicker	Tuxedo Coat	Squeaky Mouse
Meowgan Rapinoe	Diving Save	Catnip Scent	Right-footed kicker	Tabby Stripes	Squeaky Mouse
Hairy Clawne	Power Header	Laser Pointer	Right-footed kicker	Calico Fur	Squeaky Mouse
David Clawham	Rainbow Flick	Loud Purr	Right-footed kicker	Calico Fur	Spray Bottle
Leo Meowssi	Slide Tackle	Loud Purr	Right-footed kicker	Tabby Stripes	Squeaky Mouse
Kevin De Meowyne	Bicycle Kick	Laser Pointer	Left-footed kicker	Calico Fur	Rustling Bag
Erling Howland	Rainbow Flick	Yarn Ball	Right-footed kicker	Calico Fur	Rustling Bag
Pawnaldo	Rainbow Flick	Loud Purr	Left-footed kicker	Calico Fur	Squeaky Mouse
Luka Mewdric	Bicycle Kick	Yarn Ball	Right-footed kicker	Calico Fur	Squeaky Mouse
Lucy Bite	Slide Tackle	Loud Purr	Right-footed kicker	Calico Fur	Squeaky Mouse
Meowadena	Rainbow Flick	Golden Bell	Left-footed kicker	Tuxedo Coat	Squeaky Mouse
Antoine Clawzmann	Diving Save	Loud Purr	Right-footed kicker	Tuxedo Coat	Spray Bottle
Neymar Mew	Slide Tackle	Golden Bell	Right-footed kicker	Calico Fur	Squeaky Mouse
Wayne Mewney	Bicycle Kick	Loud Purr	Left-footed kicker	Tuxedo Coat	Squeaky Mouse
Son Heungpaw	Power Header	Yarn Ball	Right-footed kicker	Calico Fur	Spray Bottle
Sam Purr	Slide Tackle	Yarn Ball	Left-footed kicker	Tuxedo Coat	Squeaky Mouse
Pawle	Slide Tackle	Golden Bell	Right-footed kicker	Tabby Stripes	Squeaky Mouse

CLUE 1 Addition

> We found a pile of dropped soccer cleats near the locker room. Let us add up all the left and right shoes to see how many players ran through here.

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



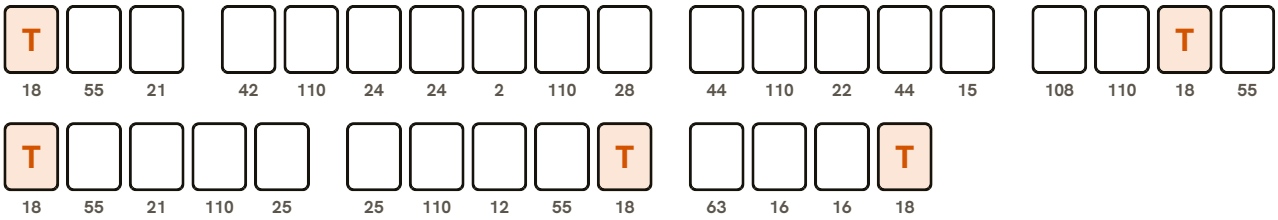
2524 + 1594 = ☐ → T	3546 + 3002 = ☐ → I	1821 + 1164 = ☐ → L
1044 + 1391 = ☐ → D	4984 + 2267 = ☐ → Y	4185 + 2539 = ☐ → H
1566 + 2982 = ☐ → N	4181 + 5307 = ☐ → V	3064 + 3665 = ☐ → S
6031 + 2651 = ☐ → E	2959 + 5100 = ☐ → R	2044 + 1013 = ☐ → O
1975 + 902 = ☐ → A	4497 + 3723 = ☐ → B	

Scratch space:

CLUE 2 Multiplication facts (1-12)

> The stadium seats are arranged in neat rows. By multiplying the rows of scratch marks on the turf, we can pinpoint the villain's escape path.

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



3 × 6 = ☐ → T	2 × 1 = ☐ → A	6 × 2 = ☐ → G	11 × 4 = ☐ → K
6 × 7 = ☐ → V	8 × 2 = ☐ → O	11 × 5 = ☐ → H	7 × 3 = ☐ → E
6 × 4 = ☐ → L	10 × 11 = ☐ → I	5 × 5 = ☐ → R	
2 × 11 = ☐ → C	7 × 4 = ☐ → N	9 × 12 = ☐ → W	
3 × 5 = ☐ → S	9 × 7 = ☐ → F		

Scratch space:

CLUE 3 Rounding

> The automatic stadium radar tracked the thief's speed, but the old digital screen only shows the speed rounded to the nearest ten.

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

T																								
30	370	1700	200	230	50	50	110	230	20	7000	110	20	290	7000	2000	700	110	90	9000	70	1700	110	1100	3000	700	2000	70	90	1700

Round 28 to the nearest ten ☐ → T

Round 286 to the nearest ten ☐ → F

Round 234 to the nearest hundred ☐ → V

Round 8,563 to the nearest thousand ☐ → Q

Round 3,161 to the nearest thousand ☐ → Y

Round 22 to the nearest ten ☐ → N

Round 704 to the nearest hundred ☐ → M

Round 71 to the nearest ten ☐ → U

Round 94 to the nearest ten ☐ → S

Round 46 to the nearest ten ☐ → L

Round 2,163 to the nearest thousand ☐ → O

Round 7,326 to the nearest thousand ☐ → R

Round 111 to the nearest ten ☐ → A

Round 1,724 to the nearest hundred ☐ → E

Round 231 to the nearest ten ☐ → I

Round 372 to the nearest ten ☐ → H

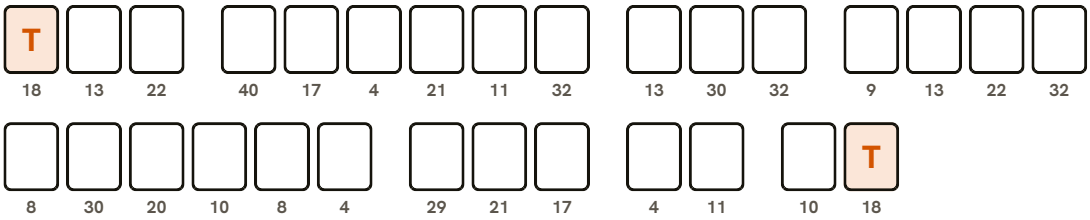
Round 1,073 to the nearest hundred ☐ → K

Scratch space:

CLUE 4 Fractions of a number

> A box of tuna-flavored energy bars was raided, and the thief ate exactly a fraction of the box before dropping a clue.

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



1/4 of 72 = ☐ → T	1/3 of 12 = ☐ → O	2/4 of 64 = ☐ → D
3/5 of 50 = ☐ → A	2/5 of 100 = ☐ → G	1/5 of 145 = ☐ → F
4/8 of 44 = ☐ → E	5/8 of 32 = ☐ → L	5/10 of 16 = ☐ → C
1/2 of 42 = ☐ → U	2/10 of 85 = ☐ → R	1/8 of 80 = ☐ → I
2/10 of 55 = ☐ → N	4/8 of 18 = ☐ → S	2/4 of 26 = ☐ → H

Scratch space:

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

> The team shared a crate of fancy catnip toys equally among the defenders, and the leftovers from division point us to our final clue.

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:

120 ÷ 12 = ☐ | 8 ÷ 4 = ☐ | 35 ÷ 5 = ☐ | 12 ÷ 1 = ☐ | 88 ÷ 8 = ☐

32 ÷ 4 = ☐ | 35 ÷ 7 = ☐ | 27 ÷ 9 = ☐ | 28 ÷ 7 = ☐ | 99 ÷ 11 = ☐

36 ÷ 6 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain stops the attacker with a slide tackle, then distracts the guard with a loud purr.
2. The villain stops the attacker with a slide tackle, then rings a golden bell to scramble the radar.
3. The villain makes an incredible diving save, then tosses a heavy yarn ball to block the exit.
4. The villain performs a dazzling rainbow flick, then points a bright laser pointer to escape.
5. The villain scores with a powerful header, then tosses a heavy yarn ball to block the exit.
6. The villain executes a flawless bicycle kick, then distracts the guard with a loud purr.
7. The villain makes an incredible diving save, then points a bright laser pointer to escape.
8. The villain performs a dazzling rainbow flick, then tosses a heavy yarn ball to block the exit.
9. The villain scores with a powerful header, then distracts the guard with a loud purr.
10. The villain scores with a powerful header, then points a bright laser pointer to escape.
11. The villain stops the attacker with a slide tackle, then tosses a heavy yarn ball to block the exit.
12. The villain executes a flawless bicycle kick, then points a bright laser pointer to escape.

TEACHER / PARENT

Answer Key

The Golden Paw Trophy Heist

Culprit: Lucy Bite

Slide Tackle · Loud Purr · Right-footed kicker · Calico Fur · Squeaky Mouse

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE A YARN BALL"

2524 + 1594 = 4118 (T) · 3546 + 3002 = 6548 (I) · 1821 + 1164 = 2985 (L) · 1044 + 1391 = 2435 (D) · 4984 + 2267 = 7251 (Y) · 4185 + 2539 = 6724 (H) · 1566 + 2982 = 4548 (N) · 4181 + 5307 = 9488 (V) · 3064 + 3665 = 6729 (S) · 6031 + 2651 = 8682 (E) · 2959 + 5100 = 8059 (R) · 2044 + 1013 = 3057 (O) · 1975 + 902 = 2877 (A) · 4497 + 3723 = 8220 (B)

Clue 2 (Multiplication facts (1-12)): "THE VILLAIN KICKS WITH THEIR RIGHT FOOT"

3 × 6 = 18 (T) · 2 × 1 = 2 (A) · 6 × 2 = 12 (G) · 11 × 4 = 44 (K) · 6 × 7 = 42 (V) · 8 × 2 = 16 (O) · 11 × 5 = 55 (H) · 7 × 3 = 21 (E) · 6 × 4 = 24 (L) · 10 × 11 = 110 (I) · 5 × 5 = 25 (R) · 2 × 11 = 22 (C) · 7 × 4 = 28 (N) · 9 × 12 = 108 (W) · 3 × 5 = 15 (S) · 9 × 7 = 63 (F)

Clue 3 (Rounding): "THE VILLAIN RAN FROM A SQUEAKY MOUSE"

Round 28 to the nearest ten = 30 (T) · Round 286 to the nearest ten = 290 (F) · Round 234 to the nearest hundred = 200 (V) · Round 8,563 to the nearest thousand = 9000 (Q) · Round 3,161 to the nearest thousand = 3000 (Y) · Round 22 to the nearest ten = 20 (N) · Round 704 to the nearest hundred = 700 (M) · Round 71 to the nearest ten = 70 (U) · Round 94 to the nearest ten = 90 (S) · Round 46 to the nearest ten = 50 (L) · Round 2,163 to the nearest thousand = 2000 (O) · Round 7,326 to the nearest thousand = 7000 (R) · Round 111 to the nearest ten = 110 (A) · Round 1,724 to the nearest hundred = 1700 (E) · Round 231 to the nearest ten = 230 (I) · Round 372 to the nearest ten = 370 (H) · Round 1,073 to the nearest hundred = 1100 (K)

Clue 4 (Fractions of a number): "THE GROUND HAD SHED CALICO FUR ON IT"

1/4 of 72 = 18 (T) · 1/3 of 12 = 4 (O) · 2/4 of 64 = 32 (D) · 3/5 of 50 = 30 (A) · 2/5 of 100 = 40 (G) · 1/5 of 145 = 29 (F) · 4/8 of 44 = 22 (E) · 5/8 of 32 = 20 (L) · 5/10 of 16 = 8 (C) · 1/2 of 42 = 21 (U) · 2/10 of 85 = 17 (R) · 1/8 of 80 = 10 (I) · 2/10 of 55 = 11 (N) · 4/8 of 18 = 9 (S) · 2/4 of 26 = 13 (H)

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

120 ÷ 12 = 10 · 8 ÷ 4 = 2 · 35 ÷ 5 = 7 · 12 ÷ 1 = 12 · 88 ÷ 8 = 11 · 32 ÷ 4 = 8 · 35 ÷ 7 = 5 · 27 ÷ 9 = 3 · 28 ÷ 7 = 4 · 99 ÷ 11 = 9 · 36 ÷ 6 = 6