The Case of the Missing Championship Trophy

Grade 3 math · Place value, Addition, Multiplication, Skip counting, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone swiped the Golden Fish Trophy right before the big feline championship match! Detective Paws needs your help to solve math puzzles, collect clues, and catch the sneaky thief before kick-off.

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 Sneaky 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 PAW	FUR PATTERN	DISTRACTION
Chloe	Bicycle Kick	Striped Headband	Left Pawed	Sleek Black	Catnip Mouse
Felix	Slam Dunk	Gold Cleats	Right Pawed	Calico Spots	Catnip Mouse
Socks	Bicycle Kick	Gold Cleats	Left Pawed	Sleek Black	Catnip Mouse
Simba	Header Pass	Striped Headband	Right Pawed	Calico Spots	Catnip Mouse
Mittens	Header Pass	Neon Wristband	Right Pawed	Calico Spots	Squeaky Toy
Luna	Bicycle Kick	Striped Headband	Left Pawed	Calico Spots	Squeaky Toy
Boots	Bicycle Kick	Sparkly Collar	Right Pawed	Sleek Black	Catnip Mouse
Gizmo	Header Pass	Neon Wristband	Right Pawed	Orange Tabby	Catnip Mouse
Duchess	Paw Swat	Whistle Lanyard	Left Pawed	Sleek Black	Catnip Mouse
Jasper	Tail Dribble	Sparkly Collar	Right Pawed	Orange Tabby	Catnip Mouse
Cleo	Tail Dribble	Gold Cleats	Left Pawed	Sleek Black	Catnip Mouse
Oreo	Header Pass	Sparkly Collar	Right Pawed	Calico Spots	Laser Pointer
Whiskers	Header Pass	Gold Cleats	Right Pawed	Orange Tabby	Catnip Mouse
Peanut	Slam Dunk	Whistle Lanyard	Right Pawed	Sleek Black	Catnip Mouse
Barnaby	Bicycle Kick	Sparkly Collar	Right Pawed	Calico Spots	Catnip Mouse
Meowton	Tail Dribble	Neon Wristband	Left Pawed	Calico Spots	Catnip Mouse
Oliver	Paw Swat	Gold Cleats	Left Pawed	Sleek Black	Laser Pointer
Shadow	Tail Dribble	Gold Cleats	Left Pawed	Calico Spots	Catnip Mouse
Milo	Bicycle Kick	Whistle Lanyard	Right Pawed	Calico Spots	Catnip Mouse
Smokey	Paw Swat	Sparkly Collar	Right Pawed	Orange Tabby	Squeaky Toy
Ziggy	Header Pass	Sparkly Collar	Right Pawed	Calico Spots	Catnip Mouse

make your own at mathcrackers.com

CLUE 1 Place value

Coach Paws finds a digit code locked on the equipment locker.

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

V																								
8000	20	600	600	900	20	100	4000	900	6000	100	10	9000	4000	20	6000	30	600	50	600	900	100	2000	900	70	300

What is the value of the 8 in 8,237? ☐ → V

What is the value of the 3 in 391? ☐ → D

What is the value of the 2 in 12,988? ☐ → Y

What is the value of the 3 in 9,236? ☐ → T

What is the value of the 4 in 4,570? ☐ → H

What is the value of the 6 in 56,732? ☐ → S

What is the value of the 5 in 352? ☐ → E

What is the value of the 2 in 3,421? ☐ → I

What is the value of the 9 in 905? ☐ → A

What is the value of the 7 in 870? ☐ → R

What is the value of the 1 in 219? ☐ → O

What is the value of the 1 in 2,199? ☐ → N

What is the value of the 9 in 9,155? ☐ → W

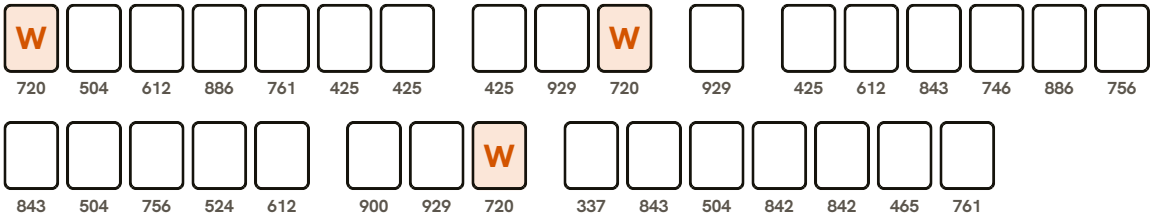
What is the value of the 6 in 650? ☐ → L

Scratch space:

CLUE 2 Addition

Detective Pawprint adds up the total score from both halves.

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



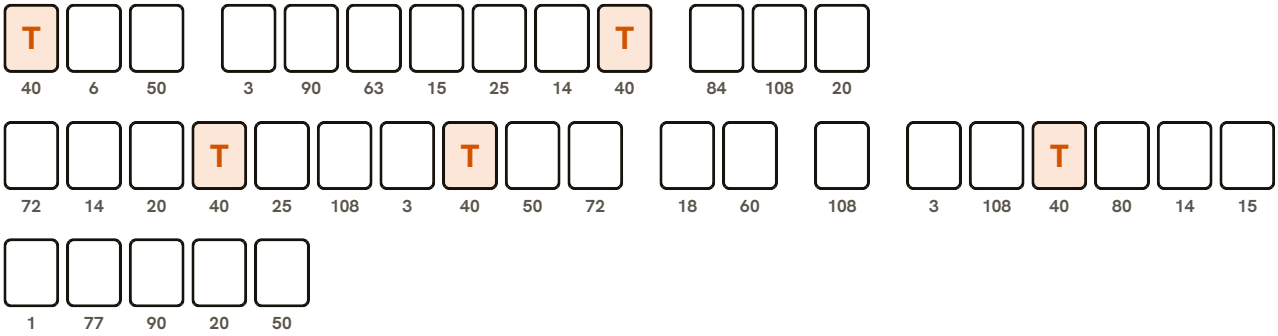
256 + 464 = ☐ → W	552 + 348 = ☐ → P	415 + 471 = ☐ → N
151 + 353 = ☐ → I	399 + 347 = ☐ → O	333 + 509 = ☐ → B
402 + 441 = ☐ → R	575 + 354 = ☐ → A	409 + 352 = ☐ → E
394 + 362 = ☐ → G	355 + 169 = ☐ → H	188 + 237 = ☐ → S
161 + 304 = ☐ → L	422 + 190 = ☐ → T	117 + 220 = ☐ → D

Scratch space:

CLUE 3 Multiplication facts (1-12)

> The team counts the soccer balls lined up in equal rows.

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



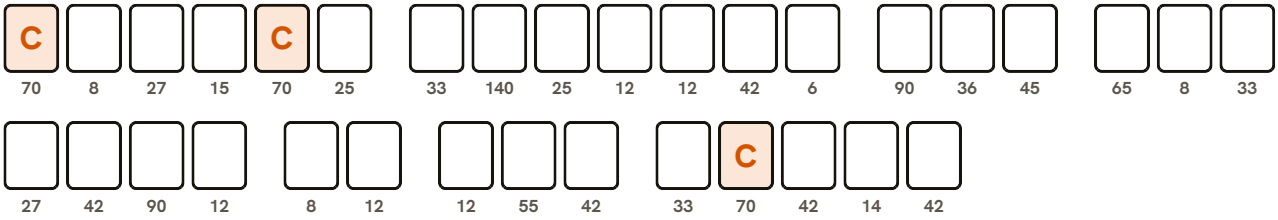
10 × 4 = ☐ → T	8 × 10 = ☐ → N	4 × 5 = ☐ → S
3 × 2 = ☐ → H	12 × 7 = ☐ → W	1 × 1 = ☐ → M
10 × 9 = ☐ → U	10 × 5 = ☐ → E	9 × 8 = ☐ → D
7 × 11 = ☐ → O	5 × 5 = ☐ → R	7 × 9 = ☐ → L
9 × 12 = ☐ → A	6 × 10 = ☐ → Y	3 × 1 = ☐ → C
3 × 5 = ☐ → P	6 × 3 = ☐ → B	
		2 × 7 = ☐ → I

Scratch space:

CLUE 4 Skip counting

> The referee counts training cones spaced along the sideline.

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



Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 [ ] → **C**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 [ ] → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 [ ] → **L**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 [ ] → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 [ ] → **I**

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 [ ] → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 [ ] → **O**

Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 [ ] → **T**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 [ ] → **P**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 [ ] → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 [ ] → **U**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 [ ] → **S**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 [ ] → **F**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → **A**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 ☐ → **R**

Scratch space:

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

> The players share cat treats equally after practice.

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:

110 ÷ 11 = ☐ | 54 ÷ 9 = ☐ | 12 ÷ 4 = ☐ | 66 ÷ 6 = ☐ | 8 ÷ 4 = ☐

36 ÷ 4 = ☐ | 8 ÷ 1 = ☐ | 84 ÷ 12 = ☐ | 45 ÷ 9 = ☐ | 144 ÷ 12 = ☐

28 ÷ 7 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain swiped the shiny trophy, then adjusted a striped headband.
2. The villain dribbled down the court, then laced up gold cleats.
3. The villain leaped high for a slam dunk, then laced up gold cleats.
4. The villain dribbled down the court, then adjusted a striped headband.
5. The villain swiped the shiny trophy, then blew a whistle lanyard.
6. The villain swiped the shiny trophy, then shook a sparkly collar.
7. The villain leaped high for a slam dunk, then snapped a neon wristband.
8. The villain leaped high for a slam dunk, then shook a sparkly collar.
9. The villain leaped high for a slam dunk, then blew a whistle lanyard.
10. The villain dribbled down the court, then shook a sparkly collar.
11. The villain passed the soccer ball, then snapped a neon wristband.
12. The villain dribbled down the court, then snapped a neon wristband.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Trophy

Culprit: Simba

Header Pass · Striped Headband · Right Pawed · Calico Spots · Catnip Mouse

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "VILLAIN HAS NO WHISTLE LANYARD"

What is the value of the 8 in 8,237? = 8000 (V) · What is the value of the 3 in 391? = 300 (D) · What is the value of the 2 in 12,988? = 2000 (Y) · What is the value of the 3 in 9,236? = 30 (T) · What is the value of the 4 in 4,570? = 4000 (H) · What is the value of the 6 in 56,732? = 6000 (S) · What is the value of the 5 in 352? = 50 (E) · What is the value of the 2 in 3,421? = 20 (I) · What is the value of the 9 in 905? = 900 (A) · What is the value of the 7 in 870? = 70 (R) · What is the value of the 1 in 219? = 10 (O) · What is the value of the 1 in 2,199? = 100 (N) · What is the value of the 9 in 9,155? = 9000 (W) · What is the value of the 6 in 650? = 600 (L)

Clue 2 (Addition): "WITNESS SAW A STRONG RIGHT PAW DRIBBLE"

256 + 464 = 720 (W) · 552 + 348 = 900 (P) · 415 + 471 = 886 (N) · 151 + 353 = 504 (I) · 399 + 347 = 746 (O) · 333 + 509 = 842 (B) · 402 + 441 = 843 (R) · 575 + 354 = 929 (A) · 409 + 352 = 761 (E) · 394 + 362 = 756 (G) · 355 + 169 = 524 (H) · 188 + 237 = 425 (S) · 161 + 304 = 465 (L) · 422 + 190 = 612 (T) · 117 + 220 = 337 (D)

Clue 3 (Multiplication facts (1-12)): "THE CULPRIT WAS DISTRACTED BY A CATNIP MOUSE"

10 × 4 = 40 (T) · 8 × 10 = 80 (N) · 4 × 5 = 20 (S) · 3 × 2 = 6 (H) · 12 × 7 = 84 (W) · 1 × 1 = 1 (M) · 10 × 9 = 90 (U) · 10 × 5 = 50 (E) · 9 × 8 = 72 (D) · 7 × 11 = 77 (O) · 5 × 5 = 25 (R) · 7 × 9 = 63 (L) · 2 × 7 = 14 (I) · 9 × 12 = 108 (A) · 6 × 10 = 60 (Y) · 3 × 1 = 3 (C) · 3 × 5 = 15 (P) · 6 × 3 = 18 (B)

Clue 4 (Skip counting): "CALICO SPOTTED FUR WAS LEFT AT THE SCENE"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 = 14 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 = 15 (I) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 = 12 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (P) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (R)

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

110 ÷ 11 = 10 · 54 ÷ 9 = 6 · 12 ÷ 4 = 3 · 66 ÷ 6 = 11 · 8 ÷ 4 = 2 · 36 ÷ 4 = 9 · 8 ÷ 1 = 8 · 84 ÷ 12 = 7 · 45 ÷ 9 = 5 · 144 ÷ 12 = 12 · 28 ÷ 7 = 4