



The Forest Cup Caper

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

Detective: _____ Date: _____

The great Forest Cup Final is tonight, but someone has stolen the Golden Acorn Trophy right from the goalie's nest! Track the culprit across the soccer pitches before the whistle blows.

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 Rogue 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 STRIKE	CLAN TRICK	DOMINANT PAW	PELT PATTERN	SILLY DISTRACTION
Cinderpelt	Thunder Kick	Mud Slip Slide	Left Pawed	Ginger Fur	Shiny Laser
Brambleclaw	Fire Streak	Mud Slip Slide	Right Pawed	Tabby Stripes	Water Splash
Cloudtail	Bramble Tackle	Oak Shield Block	Right Pawed	Black Pelt	Shiny Laser
Brokenstar	Bramble Tackle	Mud Slip Slide	Right Pawed	Black Pelt	Water Splash
Jayfeather	Fire Streak	Silver Pelt Spin	Right Pawed	Tabby Stripes	Water Splash
Brigheheart	River Glide	Oak Shield Block	Right Pawed	Tabby Stripes	Water Splash
Leafpool	Shadow Leap	Mud Slip Slide	Right Pawed	Ginger Fur	Shiny Laser
Crookedstar	Bramble Tackle	Star Clan Glow	Right Pawed	Tabby Stripes	Catnip Toy
Squirrelflight	Thunder Kick	Oak Shield Block	Right Pawed	Ginger Fur	Catnip Toy
Hawkfrost	Shadow Leap	Oak Shield Block	Right Pawed	Black Pelt	Shiny Laser
Blackstar	Thunder Kick	Feather Pass	Right Pawed	Ginger Fur	Shiny Laser
Graystripe	Shadow Leap	Star Clan Glow	Right Pawed	Black Pelt	Water Splash
Dustpelt	Bramble Tackle	Feather Pass	Right Pawed	Black Pelt	Water Splash
Dovewing	Shadow Leap	Oak Shield Block	Right Pawed	Black Pelt	Catnip Toy
Spottedleaf	Shadow Leap	Oak Shield Block	Right Pawed	Black Pelt	Water Splash
Lionblaze	River Glide	Silver Pelt Spin	Left Pawed	Black Pelt	Catnip Toy
Hollyleaf	Bramble Tackle	Star Clan Glow	Right Pawed	Black Pelt	Water Splash
Yellowfang	Thunder Kick	Feather Pass	Left Pawed	Tabby Stripes	Water Splash
Sandstorm	Shadow Leap	Silver Pelt Spin	Left Pawed	Tabby Stripes	Catnip Toy
Ivypool	Fire Streak	Silver Pelt Spin	Left Pawed	Tabby Stripes	Catnip Toy
Firestar	Fire Streak	Silver Pelt Spin	Left Pawed	Black Pelt	Water Splash

CLUE 1

You find a locked kit bag left behind by the thief. The lock needs a code. You have to figure out which digit is in the tens place to pop the latch and find a note inside!

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

40 50 9000 9000 600 50 30 8000 7000 70 300 30 7000 2000 700 600 40 70

800 70 600 2000 700 70 3000 1000 600 300 300

What is the value of the 4 in 1,145? → **V**

What is the value of the 8 in 809? → **F**

What is the value of the 9 in 89,040? → **L**

What is the value of the 2 in 92,738? → **T**

What is the value of the 8 in 98,539? → **D**

What is the value of the 7 in 8,721? → **H**

What is the value of the 7 in 67,322? → **0**

What is the value of the 1 in 1,869? → **P**

What is the value of the 3 in 318? → **S**

What is the value of the 6 in 4,649? → **A**

What is the value of the 7 in 1,079? → **E**

What is the value of the 3 in 7,239? → **N**

What is the value of the 5 in 953? →

What is the value of the 3 in 23,070? → **R**

Scratch space:

CLUE 2 **Addition**

To track the thief across the swampy pitch, you count the muddy paw prints. You add up the prints near the corner flags and the goalie box. The total sum leads you to a fresh clue!

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

T 5194 7874 7435	5555 4568 8795 8795 5516 4568 3157	4568 4117	9132 4568 8246 7874 5194	T
2902 5516 9472 7435 7075				

3041 + 2153 = → T	1543 + 3025 = → I	1612 + 2505 = → S
4304 + 5168 = → W	4546 + 3700 = → G	2768 + 4307 = → D
4469 + 4326 = → L	3886 + 3988 = → H	5804 + 3328 = → R
3156 + 2399 = → V	3609 + 3826 = → E	2605 + 2911 = → A
1771 + 1386 = → N	976 + 1926 = → P	

Scratch space:

CLUE 3 Multiplication facts (1-12)

The Clan cats have set up training grids of soccer cones on the grass. Multiplying the rows of cones gives you the total number and reveals a paper slipped under the final cone!

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

A number line from 0 to 100. The line is marked with boxes for numbers. The numbers shown are: 12, 32, 55, 35, 6, 14, 7, 11, 6, 110, 9, 33, 80, 33, 12, 55, 6. The number 12 is highlighted with a red 'T' marker.

$$3 \times 4 = \boxed{} \rightarrow \boxed{\text{T}}$$

$7 \times 5 = \boxed{} \rightarrow \boxed{\text{Y}}$

$$5 \times 11 = \boxed{} \rightarrow \boxed{\text{E}}$$

$9 \times 10 = \boxed{} \rightarrow \boxed{\text{P}}$

$$11 \times 10 = \boxed{} \rightarrow \boxed{0}$$

$$4 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$8 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$4 \times 8 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$7 \times 1 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3 \times 11 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2 \times 7 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$9 \times 1 = \boxed{} \rightarrow \boxed{\text{M}}$$

$1 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{F}}$

$$2 \times 3 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$4 \times 4 = \boxed{} \rightarrow \boxed{\text{L}}$$

Scratch space:

CLUE 4 Rounding

You check the referee speed tracker. It only shows rounded numbers for running speeds. Rounding the suspect speed to the nearest ten reveals which trail they took!

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

C													C						
5000	2300	290	2000	370	3000	290	300	300	4300	20	430	2300	290	5000	50	3700	4300	2300	9000

Round 4,944 to the nearest thousand → **C**

Round 286 to the nearest ten → **A**

Round 3,692 to the nearest hundred → **P**

Round 2,310 to the nearest hundred → **L**

Round 9,121 to the nearest thousand → **T**

Round 285 to the nearest hundred → **G**

Round 426 to the nearest ten → **B**

Round 17 to the nearest ten → **D**

Round 369 to the nearest ten → **S**

Round 4,328 to the nearest hundred → **E**

Round 52 to the nearest ten → **K**

Round 2,743 to the nearest thousand → **N**

Round 2,060 to the nearest thousand → **W**

Scratch space:

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

The kit assistants need to share the training bibs equally among the teams. Dividing the total bibs by the players tells you how many each cat gets, clearing the field so you spot the last 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:

$10 \div 10 = \square$

$24 \div 8 = \square$

$120 \div 10 = \square$

$40 \div 5 = \square$

$8 \div 2 = \square$

$99 \div 11 = \square$

$20 \div 4 = \square$

$14 \div 2 = \square$

$60 \div 10 = \square$

$16 \div 8 = \square$

$120 \div 12 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain makes a bramble tackle, then slides on a mud slip.
2. The villain runs with a fire streak, then glows with star clan light.
3. The villain makes a bramble tackle, then glows with star clan light.
4. The villain dribbles with a river glide, then glows with star clan light.
5. The villain shoots a thunder kick, then slides on a mud slip.
6. The villain jumps in a shadow leap, then passes with a feather touch.
7. The villain dribbles with a river glide, then slides on a mud slip.
8. The villain shoots a thunder kick, then glows with star clan light.
9. The villain makes a bramble tackle, then passes with a feather touch.
10. The villain runs with a fire streak, then slides on a mud slip.
11. The villain jumps in a shadow leap, then holds an oak shield.
12. The villain jumps in a shadow leap, then glows with star clan light.

Answer Key

The Forest Cup Caper

Culprit: Spottedleaf

Shadow Leap · Oak Shield Block · Right Pawed · Black Pelt · Water Splash

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "VILLAIN DOES NOT HAVE FEATHER PASS"

What is the value of the 4 in 1,145? = 40 (V) · What is the value of the 8 in 809? = 800 (F) · What is the value of the 9 in 89,040? = 9000 (L) · What is the value of the 2 in 92,738? = 2000 (T) · What is the value of the 8 in 98,539? = 8000 (D) · What is the value of the 7 in 8,721? = 700 (H) · What is the value of the 7 in 67,322? = 7000 (O) · What is the value of the 1 in 1,869? = 1000 (P) · What is the value of the 3 in 318? = 300 (S) · What is the value of the 6 in 4,649? = 600 (A) · What is the value of the 7 in 1,079? = 70 (E) · What is the value of the 3 in 7,239? = 30 (N) · What is the value of the 5 in 953? = 50 (I) · What is the value of the 3 in 23,070? = 3000 (R)

Clue 2 (Addition): "THE VILLAIN IS RIGHT PAWED"

$3041 + 2153 = 5194$ (T) · $1543 + 3025 = 4568$ (I) · $1612 + 2505 = 4117$ (S) · $4304 + 5168 = 9472$ (W) · $4546 + 3700 = 8246$ (G) · $2768 + 4307 = 7075$ (D) · $4469 + 4326 = 8795$ (L) · $3886 + 3988 = 7874$ (H) · $5804 + 3328 = 9132$ (R) · $3156 + 2399 = 5555$ (V) · $3609 + 3826 = 7435$ (E) · $2605 + 2911 = 5516$ (A) · $1771 + 1386 = 3157$ (N) · $976 + 1926 = 2902$ (P)

Clue 3 (Multiplication facts (1-12)): "THEY RUN FROM A WATER SPLASH"

$3 \times 4 = 12$ (T) · $7 \times 5 = 35$ (Y) · $5 \times 11 = 55$ (E) · $9 \times 10 = 90$ (P) · $11 \times 10 = 110$ (O) · $4 \times 10 = 40$ (S) · $8 \times 10 = 80$ (W) · $4 \times 8 = 32$ (H) · $7 \times 1 = 7$ (N) · $3 \times 11 = 33$ (A) · $2 \times 7 = 14$ (U) · $9 \times 1 = 9$ (M) · $1 \times 11 = 11$ (F) · $2 \times 3 = 6$ (R) · $4 \times 4 = 16$ (L)

Clue 4 (Rounding): "CLAW SNAGGED BLACK PELT"

Round 4,944 to the nearest thousand = 5000 (C) · Round 286 to the nearest ten = 290 (A) · Round 3,692 to the nearest hundred = 3700 (P) · Round 2,310 to the nearest hundred = 2300 (L) · Round 9,121 to the nearest thousand = 9000 (T) · Round 285 to the nearest hundred = 300 (G) · Round 426 to the nearest ten = 430 (B) · Round 17 to the nearest ten = 20 (D) · Round 369 to the nearest ten = 370 (S) · Round 4,328 to the nearest hundred = 4300 (E) · Round 52 to the nearest ten = 50 (K) · Round 2,743 to the nearest thousand = 3000 (N) · Round 2,060 to the nearest thousand = 2000 (W)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Spottedleaf

$10 \div 10 = 1$ · $24 \div 8 = 3$ · $120 \div 10 = 12$ · $40 \div 5 = 8$ · $8 \div 2 = 4$ · $99 \div 11 = 9$ · $20 \div 4 = 5$ · $14 \div 2 = 7$ · $60 \div 10 = 6$ · $16 \div 8 = 2$ · $120 \div 12 = 10$