



The Whispering Woods Mystery

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

Detective: _____ Date: _____

A rogue cat has snuck into the ThunderClan camp and stolen the sacred Moonstone shard! Clan Deputy Oakheart needs your help to track the scent before the next gathering.

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 cat is _____

Possible suspects

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

NAME	BATTLE SKILL	SECRET TRAIT	HUNTING STANCE	FUR PATTERN	FEAR
Twigbranch	Leap Strike	Scent Masker	Crouches Right	Gray Tabby	Scared of Fire
Crowfeather	Night Vision	Water Swimmer	Crouches Left	Gray Tabby	Scared of Water
Dustpelt	Silent Stalk	Fast Runner	Crouches Right	Gray Tabby	Scared of Water
Lionblaze	Silent Stalk	Scent Masker	Crouches Left	Black Patches	Scared of Fire
Fireheart	Night Vision	High Jumper	Crouches Right	Ginger Stripes	Scared of Fire
Dovewing	Night Vision	Water Swimmer	Crouches Right	Black Patches	Scared of Water
Feathertail	Night Vision	Fast Runner	Crouches Right	Black Patches	Scared of Water
Lionheart	Tree Climb	Thorn Immunity	Crouches Left	Gray Tabby	Scared of Badgers
Yellowfang	Tree Climb	High Jumper	Crouches Left	Gray Tabby	Scared of Badgers
Tigerclaw	Silent Stalk	Fast Runner	Crouches Left	Gray Tabby	Scared of Fire
Sandstorm	Tree Climb	High Jumper	Crouches Left	Black Patches	Scared of Water
Spottedleaf	Night Vision	Thorn Immunity	Crouches Left	Gray Tabby	Scared of Water
Graystripe	Night Vision	High Jumper	Crouches Left	Black Patches	Scared of Water
Alderheart	Leap Strike	Water Swimmer	Crouches Left	Gray Tabby	Scared of Water
Ravenpaw	Leap Strike	Scent Masker	Crouches Left	Ginger Stripes	Scared of Water
Ivypool	Silent Stalk	Fast Runner	Crouches Left	Ginger Stripes	Scared of Badgers
Hollyleaf	Tail Swipe	Water Swimmer	Crouches Right	Ginger Stripes	Scared of Fire
Tigerstar	Silent Stalk	High Jumper	Crouches Right	Gray Tabby	Scared of Water
Squirrelflight	Tail Swipe	Fast Runner	Crouches Left	Gray Tabby	Scared of Water
Leafpool	Tail Swipe	Scent Masker	Crouches Left	Gray Tabby	Scared of Water
Jayfeather	Tree Climb	Water Swimmer	Crouches Left	Ginger Stripes	Scared of Water

CLUE 1 Place value

We look at the pawprint patterns on the dusty ground. The apprentice counts the pawprints in the ones, tens, and hundreds places to find a hidden message.

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

T											T								
70	2000	900	8000	200	60	800	900	3000	500	70	10	600	700	200	70	500			
				T															
600	3000	900	700	70	6000	500	600	30	900	8000									

What is the value of the 7 in 8,376? → **T**

What is the value of the 9 in 952? → **E**

What is the value of the 6 in 5,691? → **S**

What is the value of the 2 in 2,697? → **H**

What is the value of the 6 in 6,321? → **M**

What is the value of the 2 in 256? → **O**

What is the value of the 1 in 3,417? → **I**

What is the value of the 3 in 93,574? → **C**

What is the value of the 6 in 8,969? → **G**

What is the value of the 3 in 2,832? → **K**

What is the value of the 8 in 1,859? → **U**

What is the value of the 8 in 68,136? → **R**

What is the value of the 5 in 6,594? → **A**

What is the value of the 7 in 1,743? → **N**

Scratch space:

CLUE 2

A patrol estimates how many rogue cats are near the border. The leader rounds the count to the nearest ten on the camp scoreboard to guide our search.

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

[illegible]

Round 86 to the nearest ten $\rightarrow$ **T**

Round 74 to the nearest ten $\rightarrow$ **S**

Round 428 to the nearest ten $\rightarrow$ **H**

Round 2,275 to the nearest hundred $\rightarrow$ **F**

Round 3,708 to the nearest hundred → **G**

Round 166 to the nearest ten $\rightarrow$ **L**

Round 7,062 to the nearest thousand $\rightarrow$ **R**

Round 233 to the nearest ten $\rightarrow$

Round 8,823 to the nearest thousand $\rightarrow$ **E**

Round 544 to the nearest hundred $\rightarrow$ **C**

Round 47 to the nearest ten $\rightarrow$ **N**

Round 112 to the nearest ten →

Round 671 to the nearest hundred $\rightarrow$ **A**

Scratch space:

CLUE 3 Addition

We gather fresh kill for the elders to keep up our strength. Adding the total number of mice and thrushes caught today gives us a clue to follow.

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

T											T					
7388	2071	4136	8189	6592	6714	3646	4136	2632	3604	7388	9368	3604	7235			
													T			
7235	2632	3604	8189	4136	7767	5243	5160	7767	4136	4136	9589	9368	3604	7388	4136	8189

2628 + 4760 = → T	5941 + 3427 = → W	3450 + 3142 = → O
1412 + 2724 = → E	2668 + 2492 = → Y	5222 + 4367 = → P
3378 + 3857 = → S	1053 + 1018 = → H	2006 + 1598 = → A
2521 + 4193 = → G	2536 + 5231 = → D	1493 + 1139 = → C
2769 + 5420 = → R	3598 + 1645 = → B	1244 + 2402 = → U

Scratch space:

CLUE 4

Subtraction

Some warriors chased off a small group of invaders. We subtract the runaway cats from the main pack to see how many are left hiding in the hollow.

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

G																			
7819	7162	1487	7256	4390	8696	7162	4787	1487	4656	8748	2944	4390	6060	1487	6060	6060	8437	2944	
4656	1487	8868	3186	7256	8437	5489	8748	8748	5489	4787									

$9860 - 2041 = \square \rightarrow \boxed{\text{G}}$

$7449 - 193 = \square \rightarrow \boxed{\text{Y}}$

$9296 - 600 = \square \rightarrow \boxed{\text{U}}$

$10081 - 1333 = \square \rightarrow \boxed{\text{L}}$

$8008 - 3618 = \square \rightarrow \boxed{\text{F}}$

$4042 - 2555 = \square \rightarrow \boxed{\text{A}}$

$10217 - 4728 = \square \rightarrow \boxed{\text{O}}$

$7240 - 78 = \square \rightarrow \boxed{\text{R}}$

$6668 - 1881 = \square \rightarrow \boxed{\text{W}}$

$6995 - 935 = \square \rightarrow \boxed{\text{T}}$

$7929 - 4743 = \square \rightarrow \boxed{\text{D}}$

$10717 - 1849 = \square \rightarrow \boxed{\text{N}}$

$9120 - 4464 = \square \rightarrow \boxed{\text{S}}$

$8529 - 92 = \square \rightarrow \boxed{\text{H}}$

$3780 - 836 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

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

We divide our healing herbs evenly among the medicine cat apprentices. The equal shares help us decode the secret scent of the culprit.

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:

$16 \div 2 = \boxed{}$

$33 \div 11 = \boxed{}$

$132 \div 12 = \boxed{}$

$28 \div 7 = \boxed{}$

$9 \div 1 = \boxed{}$

$21 \div 3 = \boxed{}$

$96 \div 8 = \boxed{}$

$10 \div 1 = \boxed{}$

$42 \div 7 = \boxed{}$

$8 \div 8 = \boxed{}$

$15 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain climbs the tallest oak, then sprints through the sharp gorse.
2. The villain leaps from the high branch, then crosses the rushing river.
3. The villain spots the patrol in the dark, then crosses the rushing river.
4. The villain spots the patrol in the dark, then jumps over the fallen log.
5. The villain climbs the tallest oak, then jumps over the fallen log.
6. The villain swipes with a heavy paw, then sprints through the sharp gorse.
7. The villain swipes with a heavy paw, then jumps over the fallen log.
8. The villain swipes with a heavy paw, then speeds across the moorland.
9. The villain stalks through the ferns, then sprints through the sharp gorse.
10. The villain stalks through the ferns, then jumps over the fallen log.
11. The villain spots the patrol in the dark, then sprints through the sharp gorse.
12. The villain leaps from the high branch, then speeds across the moorland.

Answer Key

The Whispering Woods Mystery

Culprit: Alderheart

Leap Strike · Water Swimmer · Crouches Left · Gray Tabby · Scared of Water

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE ROGUE CAT IS NOT A SCENT MASKER"

What is the value of the 7 in 8,376? = 70 (T) · What is the value of the 9 in 952? = 900 (E) · What is the value of the 6 in 5,691? = 600 (S) · What is the value of the 2 in 2,697? = 2000 (H) · What is the value of the 6 in 6,321? = 6000 (M) · What is the value of the 2 in 256? = 200 (O) · What is the value of the 1 in 3,417? = 10 (I) · What is the value of the 3 in 93,574? = 3000 (C) · What is the value of the 6 in 8,969? = 60 (G) · What is the value of the 3 in 2,832? = 30 (K) · What is the value of the 8 in 1,859? = 800 (U) · What is the value of the 8 in 68,136? = 8000 (R) · What is the value of the 5 in 6,594? = 500 (A) · What is the value of the 7 in 1,743? = 700 (N)

Clue 2 (Rounding): "THE ROGUE CAT CROUCHES LEFT TO HUNT"

Round 86 to the nearest ten = 90 (T) · Round 74 to the nearest ten = 70 (S) · Round 428 to the nearest ten = 430 (H) · Round 2,275 to the nearest hundred = 2300 (F) · Round 3,708 to the nearest hundred = 3700 (G) · Round 166 to the nearest ten = 170 (L) · Round 7,062 to the nearest thousand = 7000 (R) · Round 233 to the nearest ten = 230 (O) · Round 8,823 to the nearest thousand = 9000 (E) · Round 544 to the nearest hundred = 500 (C) · Round 47 to the nearest ten = 50 (N) · Round 112 to the nearest ten = 110 (U) · Round 671 to the nearest hundred = 700 (A)

Clue 3 (Addition): "THE ROGUE CAT WAS SCARED BY DEEP WATER"

$2628 + 4760 = 7388$ (T) · $5941 + 3427 = 9368$ (W) · $3450 + 3142 = 6592$ (O) · $1412 + 2724 = 4136$ (E) · $2668 + 2492 = 5160$ (Y) · $5222 + 4367 = 9589$ (P) · $3378 + 3857 = 7235$ (S) · $1053 + 1018 = 2071$ (H) · $2006 + 1598 = 3604$ (A) · $2521 + 4193 = 6714$ (G) · $2536 + 5231 = 7767$ (D) · $1493 + 1139 = 2632$ (C) · $2769 + 5420 = 8189$ (R) · $3598 + 1645 = 5243$ (B) · $1244 + 2402 = 3646$ (U)

Clue 4 (Subtraction): "GRAY FUR WAS LEFT AT THE SANDY HOLLOW"

$9860 - 2041 = 7819$ (G) · $7449 - 193 = 7256$ (Y) · $9296 - 600 = 8696$ (U) · $10081 - 1333 = 8748$ (L) · $8008 - 3618 = 4390$ (F) · $4042 - 2555 = 1487$ (A) · $10217 - 4728 = 5489$ (O) · $7240 - 78 = 7162$ (R) · $6668 - 1881 = 4787$ (W) · $6995 - 935 = 6060$ (T) · $7929 - 4743 = 3186$ (D) · $10717 - 1849 = 8868$ (N) · $9120 - 4464 = 4656$ (S) · $8529 - 92 = 8437$ (H) · $3780 - 836 = 2944$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Alderheart

$16 \div 2 = 8$ · $33 \div 11 = 3$ · $132 \div 12 = 11$ · $28 \div 7 = 4$ · $9 \div 1 = 9$ · $21 \div 3 = 7$ · $96 \div 8 = 12$ · $10 \div 1 = 10$ · $42 \div 7 = 6$ · $8 \div 8 = 1$ · $15 \div 3 = 5$