The Whispering Woods Mystery

Grade 4 math · Multiplication, Word problems, Subtraction, Addition, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The Golden Acorn has been taken from the Sanctuary vault! Ranger Rick needs your help to track down the mischievous critter who took it. We have a list of animal suspects, but we need to solve the clues to find the real culprit.

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 mischievous critter is _____

Possible suspects

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

NAME	SUPER SKILL	LUCKY GEAR	DOMINANT PAW	COAT TYPE	DISTRACTION
Daisy	loud howl	blue collar	right pawed	spotted coat	squeaky toy
Jack	super sniff	red cape	left pawed	golden fur	laser pointer
Bear	super sniff	shiny badge	left pawed	golden fur	laser pointer
Milo	super sniff	warm vest	left pawed	golden fur	laser pointer
Leo	fast dash	shiny badge	left pawed	striped fur	laser pointer
Rosie	high jump	warm vest	left pawed	spotted coat	laser pointer
Charlie	fast dash	warm vest	left pawed	spotted coat	squeaky toy
Bella	super sniff	warm vest	right pawed	golden fur	laser pointer
Buster	high jump	red cape	left pawed	spotted coat	squeaky toy
Rocky	loud howl	red cape	left pawed	spotted coat	laser pointer
Sadie	fast dash	shiny badge	left pawed	golden fur	laser pointer
Luna	high jump	shiny badge	left pawed	spotted coat	peanut butter
Stella	loud howl	warm vest	right pawed	golden fur	peanut butter
Sophie	loud howl	blue collar	left pawed	golden fur	laser pointer
Lola	super sniff	gold bell	left pawed	golden fur	squeaky toy
Toby	fast dash	warm vest	right pawed	spotted coat	peanut butter
Chloe	fast dash	shiny badge	left pawed	golden fur	squeaky toy
Zeus	fast dash	warm vest	left pawed	striped fur	laser pointer
Nala	loud howl	red cape	right pawed	golden fur	squeaky toy
Bailey	loud howl	warm vest	left pawed	golden fur	squeaky toy
Ruby	tree climb	blue collar	left pawed	spotted coat	peanut butter

CLUE 1 Multiplication facts (1-12)

> Ranger Rick needs to count the supply bags to plan the search. Solve this problem to unlock the first clue about the thief's gear!

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

T			T										T						
22	36	99	22	36	108	99	45	25	132	99	18	2	132	22	20	99	54	64	

54	64	99	25	100	54	16	99				

2 × 11 = ☐ → T

2 × 9 = ☐ → S

9 × 11 = ☐ → E

12 × 9 = ☐ → I

8 × 8 = ☐ → R

2 × 10 = ☐ → W

9 × 6 = ☐ → A

10 × 10 = ☐ → C

11 × 12 = ☐ → O

6 × 6 = ☐ → H

8 × 2 = ☐ → P

5 × 9 = ☐ → F

5 × 5 = ☐ → D

2 × 1 = ☐ → N

Scratch space:

CLUE 2 Word problems

> We found rows of paw prints leading into the deep woods. Multiply the rows of prints to reveal what paw the critter uses most!

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L								D
42	29	8	17	77	45	44	29	

.

Ranger Rick lined up 7 rows of 6 shiny pebbles. How many shiny pebbles in all?

Answer: ☐ → **L**

Ranger Rick found 27 acorns yesterday and 2 more today. How many acorns in all?

Answer: ☐ → **E**

Ranger Rick found 2 toy mice yesterday and 6 more today. How many toy mice in all?

Answer: ☐ → **F**

There were 47 toy mice. 30 were used up. How many toy mice are left?

Answer: ☐ → **T**

There were 77 dog treats. 33 were used up. How many dog treats are left?

Answer: ☐ → **W**

Ranger Rick found 26 shiny pebbles yesterday and 51 more today. How many shiny pebbles in all?

Answer: ☐ → **P**

There were 70 dog treats. 25 were used up. How many dog treats are left?

Answer: ☐ → **A**

Scratch space:

CLUE 3 Subtraction

> Some acorns are missing from the feeding stations. Subtract the stolen acorns to find out what snack distracts this animal!

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

4719 - 2367 = ☐ → **A**

10678 - 3574 = ☐ → **O**

6678 - 1431 = ☐ → **H**

8112 - 3525 = ☐ → **S**

8271 - 2886 = ☐ → **R**

11745 - 4375 = ☐ → **C**

10725 - 2483 = ☐ → **E**

5890 - 3328 = ☐ → **T**

8021 - 2071 = ☐ → **L**

11966 - 4702 = ☐ → **P**

8075 - 3207 = ☐ → **I**

4994 - 700 = ☐ → **D**

4720 - 3539 = ☐ → **N**

10901 - 4200 = ☐ → **M**

Scratch space:

CLUE 4 Addition

> We are collecting fur samples from the bushes. Add up the total number of tufts we found to see what kind of coat the suspect has!

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

1762 + 2409 = ☐ → W	3141 + 2469 = ☐ → F	2004 + 880 = ☐ → D
3908 + 2192 = ☐ → L	2254 + 4391 = ☐ → H	5208 + 4305 = ☐ → O
4400 + 2416 = ☐ → N	3676 + 1815 = ☐ → E	3939 + 4526 = ☐ → U
3934 + 3995 = ☐ → G	2273 + 4688 = ☐ → R	2666 + 3276 = ☐ → S

Scratch space:

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

> The rescue team needs to split up into equal groups to search the muddy trails. Divide the rangers to discover the thief's super skill!

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:

5 ÷ 1 = ☐	12 ÷ 1 = ☐	14 ÷ 7 = ☐	21 ÷ 7 = ☐	7 ÷ 7 = ☐
77 ÷ 7 = ☐	35 ÷ 5 = ☐	90 ÷ 10 = ☐	100 ÷ 10 = ☐	42 ÷ 7 = ☐
16 ÷ 2 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain howled to distract the guard, then rang their gold bell.
2. The villain howled to distract the guard, then lost a blue collar tag.
3. The villain dashed past the cameras, then rang their gold bell.
4. The villain dashed past the cameras, then dropped a shiny badge.
5. The villain sniffed out the hidden key, then dropped a shiny badge.
6. The villain leaped over the tall fence, then snagged their red cape.
7. The villain climbed up the oak tree, then dropped a shiny badge.
8. The villain leaped over the tall fence, then unzipped their warm vest.
9. The villain dashed past the cameras, then lost a blue collar tag.
10. The villain howled to distract the guard, then unzipped their warm vest.
11. The villain dashed past the cameras, then unzipped their warm vest.
12. The villain sniffed out the hidden key, then unzipped their warm vest.

TEACHER / PARENT

Answer Key

The Whispering Woods Mystery

Culprit: Sadie

fast dash · shiny badge · left pawed · golden fur · laser pointer

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE THIEF DOES NOT WEAR A RED CAPE"

2 × 11 = 22 (T) · 2 × 9 = 18 (S) · 9 × 11 = 99 (E) · 12 × 9 = 108 (I) · 8 × 8 = 64 (R) · 2 × 10 = 20 (W) · 9 × 6 = 54 (A) · 10 × 10 = 100 (C) · 11 × 12 = 132 (O) · 6 × 6 = 36 (H) · 8 × 2 = 16 (P) · 5 × 9 = 45 (F) · 5 × 5 = 25 (D) · 2 × 1 = 2 (N)

Clue 2 (Word problems): "LEFT PAWED"

Ranger Rick lined up 7 rows of 6 shiny pebbles. How many shiny pebbles in all? = 42 (L) · Ranger Rick found 27 acorns yesterday and 2 more today. How many acorns in all? = 29 (E) · Ranger Rick found 2 toy mice yesterday and 6 more today. How many toy mice in all? = 8 (F) · There were 47 toy mice. 30 were used up. How many toy mice are left? = 17 (T) · There were 77 dog treats. 33 were used up. How many dog treats are left? = 44 (W) · Ranger Rick found 26 shiny pebbles yesterday and 51 more today. How many shiny pebbles in all? = 77 (P) · There were 70 dog treats. 25 were used up. How many dog treats are left? = 45 (A)

Clue 3 (Subtraction): "A LASER POINTER DISTRACTED THEM"

4719 - 2367 = 2352 (A) · 10678 - 3574 = 7104 (O) · 6678 - 1431 = 5247 (H) · 8112 - 3525 = 4587 (S) · 8271 - 2886 = 5385 (R) · 11745 - 4375 = 7370 (C) · 10725 - 2483 = 8242 (E) · 5890 - 3328 = 2562 (T) · 8021 - 2071 = 5950 (L) · 11966 - 4702 = 7264 (P) · 8075 - 3207 = 4868 (I) · 4994 - 700 = 4294 (D) · 4720 - 3539 = 1181 (N) · 10901 - 4200 = 6701 (M)

Clue 4 (Addition): "WE FOUND SHEDDED GOLDEN FUR"

1762 + 2409 = 4171 (W) · 3141 + 2469 = 5610 (F) · 2004 + 880 = 2884 (D) · 3908 + 2192 = 6100 (L) · 2254 + 4391 = 6645 (H) · 5208 + 4305 = 9513 (O) · 4400 + 2416 = 6816 (N) · 3676 + 1815 = 5491 (E) · 3939 + 4526 = 8465 (U) · 3934 + 3995 = 7929 (G) · 2273 + 4688 = 6961 (R) · 2666 + 3276 = 5942 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Sadie

5 ÷ 1 = 5 · 12 ÷ 1 = 12 · 14 ÷ 7 = 2 · 21 ÷ 7 = 3 · 7 ÷ 7 = 1 · 77 ÷ 7 = 11 · 35 ÷ 5 = 7 · 90 ÷ 10 = 9 · 100 ÷ 10 = 10 · 42 ÷ 7 = 6 · 16 ÷ 2 = 8