



The Whispering Woods Mystery

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

Detective: _____ **Date:** _____

Someone snuck into the Treehouse Club and took the Golden Compass! We need to find the map snatcher before they reach the hidden cove.

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 map snatcher is _____

Possible suspects

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

NAME	SIGNATURE GEAR	SPECIALIST SKILL	MAP MARKING HAND	BANDANA COLOR	SILLY FEAR
Ava	Walkie Talkie	expert climbing	RIGHT HANDED	RED BANDANA	BUBBLE BLOWER
Noah	Decoder Ring	rope swinging	LEFT HANDED	BLUE BANDANA	SHINY FOIL
Luke	Climbing Rope	fast paddling	LEFT HANDED	BLUE BANDANA	BUBBLE BLOWER
Owen	Walkie Talkie	code cracking	RIGHT HANDED	GREEN BANDANA	SHINY FOIL
Ella	Bright Flashlight	code cracking	LEFT HANDED	BLUE BANDANA	BUBBLE BLOWER
Max	Pocket Spyglass	expert climbing	LEFT HANDED	GREEN BANDANA	BUBBLE BLOWER
Grace	Climbing Rope	expert climbing	RIGHT HANDED	BLUE BANDANA	BUBBLE BLOWER
Maya	Pocket Spyglass	map drawing	LEFT HANDED	BLUE BANDANA	BUBBLE BLOWER
Lily	Bright Flashlight	rope swinging	LEFT HANDED	RED BANDANA	SQUEAKY SHOES
Harper	Walkie Talkie	map drawing	LEFT HANDED	BLUE BANDANA	BUBBLE BLOWER
Zoe	Pocket Spyglass	code cracking	LEFT HANDED	GREEN BANDANA	SQUEAKY SHOES
Chloe	Pocket Spyglass	map drawing	LEFT HANDED	BLUE BANDANA	SQUEAKY SHOES
Finn	Walkie Talkie	code cracking	LEFT HANDED	BLUE BANDANA	SHINY FOIL
Ruby	Climbing Rope	rope swinging	LEFT HANDED	RED BANDANA	SHINY FOIL
Sophia	Walkie Talkie	map drawing	LEFT HANDED	GREEN BANDANA	SQUEAKY SHOES
Eli	Climbing Rope	rope swinging	LEFT HANDED	BLUE BANDANA	BUBBLE BLOWER
Jack	Climbing Rope	fast paddling	RIGHT HANDED	BLUE BANDANA	SQUEAKY SHOES
Sam	Pocket Spyglass	code cracking	LEFT HANDED	BLUE BANDANA	BUBBLE BLOWER
Ivy	Bright Flashlight	map drawing	RIGHT HANDED	GREEN BANDANA	SQUEAKY SHOES
Wyatt	Bright Flashlight	code cracking	LEFT HANDED	RED BANDANA	BUBBLE BLOWER
Toby	Bright Flashlight	code cracking	LEFT HANDED	GREEN BANDANA	SQUEAKY SHOES

CLUE 1 Addition

We found foot tracks leading away from the giant oak tree. Let us add up all the boot prints we see to track the thief.

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

T																
235	549	670	356	743	670	445	935	222	285	699	536	536	445	699	743	
					T											
505	445	743	743	720	235	509	557	445	386	753	445	264	356			

$91 + 144 = \square \rightarrow$ T	$158 + 347 = \square \rightarrow$ C	$578 + 357 = \square \rightarrow$ K
$378 + 179 = \square \rightarrow$ R	$484 + 215 = \square \rightarrow$ I	$130 + 226 = \square \rightarrow$ S
$343 + 206 = \square \rightarrow$ H	$330 + 423 = \square \rightarrow$ M	$252 + 193 = \square \rightarrow$ A
$240 + 430 = \square \rightarrow$ E	$456 + 264 = \square \rightarrow$ O	$105 + 117 = \square \rightarrow$ Y
$125 + 160 = \square \rightarrow$ V	$157 + 352 = \square \rightarrow$ D	$329 + 207 = \square \rightarrow$ L
$206 + 180 = \square \rightarrow$ W	$458 + 285 = \square \rightarrow$ N	$151 + 113 = \square \rightarrow$ P

Scratch space:

CLUE 2 Subtraction

The thief dropped a pack of juice boxes. If we subtract the empty boxes from the total, we can tell how long they rested.

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

T															T				
115	208	821	838	696	232	232	621	696	668	815	400	821	310	115	208	821	696	888	

			T					T					T	
232	821	374	115	208	621	668	310	115	436	323	888	696	115	821

$496 - 381 = \boxed{} \rightarrow \boxed{\text{T}}$

$1078 - 190 = \boxed{} \rightarrow \boxed{\text{R}}$

$414 - 206 = \boxed{} \rightarrow \boxed{\text{H}}$

$447 - 137 = \boxed{} \rightarrow \boxed{\text{D}}$

$370 - 138 = \boxed{} \rightarrow \boxed{\text{L}}$

$770 - 370 = \boxed{} \rightarrow \boxed{\text{S}}$

$1113 - 298 = \boxed{} \rightarrow \boxed{\text{U}}$

$767 - 146 = \boxed{} \rightarrow \boxed{\text{A}}$

$890 - 69 = \boxed{} \rightarrow \boxed{\text{E}}$

$1232 - 394 = \boxed{} \rightarrow \boxed{\text{V}}$

$658 - 222 = \boxed{} \rightarrow \boxed{\text{O}}$

$892 - 196 = \boxed{} \rightarrow \boxed{\text{I}}$

$492 - 169 = \boxed{} \rightarrow \boxed{\text{W}}$

$742 - 74 = \boxed{} \rightarrow \boxed{\text{N}}$

$710 - 336 = \boxed{} \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 3 Place value

A coded notebook has three digits written on the cover. We must look at the tens place to unlock the latch.

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

T																			
9000	50	200	80	70	3000	3000	40	70	90	400	50	20	40	90	900	800	20	700	6000
40	4000	2000	4000	4000	3000	200	4000	3000	700	1000	200	20							

What is the value of the 9 in 69,036? → **T**

What is the value of the 1 in 31,090? → **W**

What is the value of the 2 in 2,307? → **U**

What is the value of the 7 in 575? → **I**

What is the value of the 9 in 393? → **N**

What is the value of the 8 in 805? → **F**

What is the value of the 2 in 9,625? → **R**

What is the value of the 4 in 4,325? → **B**

What is the value of the 3 in 13,244? → **L**

What is the value of the 4 in 2,647? → **A**

What is the value of the 8 in 9,583? → **V**

What is the value of the 9 in 2,923? → **K**

What is the value of the 5 in 8,251? → **H**

What is the value of the 7 in 741? → **O**

What is the value of the 2 in 218? → **E**

What is the value of the 4 in 401? → **S**

What is the value of the 6 in 36,880? → **M**

Scratch space:

CLUE 4 Rounding

Our trusty radar screen shows the bandit is close. We need to round the distance to the nearest ten to pinpoint them.

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

W																		
80	9000	7000	30	20	200	800	50	2000	400	20	9000	2000	50	200	800	50	200	50
50	4000	4000	60	9000	40	700	9000	200	9000									

Round 77 to the nearest ten → **W**

Round 403 to the nearest hundred → **L**

Round 844 to the nearest hundred → **D**

Round 1,777 to the nearest thousand → **B**

Round 34 to the nearest ten → **O**

Round 209 to the nearest hundred → **N**

Round 40 to the nearest ten → **S**

Round 61 to the nearest ten → **H**

Round 22 to the nearest ten → **U**

Round 46 to the nearest ten → **A**

Round 695 to the nearest hundred → **C**

Round 7,101 to the nearest thousand → **F**

Round 8,791 to the nearest thousand → **E**

Round 4,392 to the nearest thousand → **T**

Scratch space:

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

We found a pile of gold coins left behind. If we divide them equally among our team, we will find the final secret.

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:

$80 \div 10 = \boxed{}$

$7 \div 7 = \boxed{}$

$45 \div 5 = \boxed{}$

$11 \div 1 = \boxed{}$

$60 \div 10 = \boxed{}$

$25 \div 5 = \boxed{}$

$30 \div 10 = \boxed{}$

$132 \div 11 = \boxed{}$

$20 \div 10 = \boxed{}$

$24 \div 6 = \boxed{}$

$20 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scaled the tree with climbing rope, then escaped with fast paddling.
2. The villain signaled with a bright flashlight, then swung away using rope swinging.
3. The villain signaled with a bright flashlight, then escaped with fast paddling.
4. The villain chattered on a walkie talkie, then scrawled directions with map drawing.
5. The villain signaled with a bright flashlight, then scrawled directions with map drawing.
6. The villain signaled with a bright flashlight, then fled using expert climbing.
7. The villain scaled the tree with climbing rope, then swung away using rope swinging.
8. The villain spied with a pocket spyglass, then bypassed the locks with code cracking.
9. The villain signaled with a bright flashlight, then bypassed the locks with code cracking.
10. The villain chattered on a walkie talkie, then swung away using rope swinging.
11. The villain scaled the tree with climbing rope, then fled using expert climbing.
12. The villain chattered on a walkie talkie, then escaped with fast paddling.

Answer Key

The Whispering Woods Mystery

Culprit: Eli

Climbing Rope · rope swinging · LEFT HANDED · BLUE BANDANA · BUBBLE BLOWER

Trail: Start 21 → Clue 1 16 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY VILLAIN CANNOT DRAW MAPS"

$91 + 144 = 235$ (T) · $158 + 347 = 505$ (C) · $578 + 357 = 935$ (K) · $378 + 179 = 557$ (R) · $484 + 215 = 699$ (I) · $130 + 226 = 356$ (S) · $343 + 206 = 549$ (H) · $330 + 423 = 753$ (M) · $252 + 193 = 445$ (A) · $240 + 430 = 670$ (E) · $456 + 264 = 720$ (O) · $105 + 117 = 222$ (Y) · $125 + 160 = 285$ (V) · $157 + 352 = 509$ (D) · $329 + 207 = 536$ (L) · $206 + 180 = 386$ (W) · $458 + 285 = 743$ (N) · $151 + 113 = 264$ (P)

Clue 2 (Subtraction): "THE VILLAIN USED THEIR LEFT HAND TO WRITE"

$496 - 381 = 115$ (T) · $1078 - 190 = 888$ (R) · $414 - 206 = 208$ (H) · $447 - 137 = 310$ (D) · $370 - 138 = 232$ (L) · $770 - 370 = 400$ (S) · $1113 - 298 = 815$ (U) · $767 - 146 = 621$ (A) · $890 - 69 = 821$ (E) · $1232 - 394 = 838$ (V) · $658 - 222 = 436$ (O) · $892 - 196 = 696$ (I) · $492 - 169 = 323$ (W) · $742 - 74 = 668$ (N) · $710 - 336 = 374$ (F)

Clue 3 (Place value): "THE VILLAIN SHRANK FROM A BUBBLE BLOWER"

What is the value of the 9 in 69,036? = 9000 (T) · What is the value of the 1 in 31,090? = 1000 (W) · What is the value of the 2 in 2,307? = 2000 (U) · What is the value of the 7 in 575? = 70 (I) · What is the value of the 9 in 393? = 90 (N) · What is the value of the 8 in 805? = 800 (F) · What is the value of the 2 in 9,625? = 20 (R) · What is the value of the 4 in 4,325? = 4000 (B) · What is the value of the 3 in 13,244? = 3000 (L) · What is the value of the 4 in 2,647? = 40 (A) · What is the value of the 8 in 9,583? = 80 (V) · What is the value of the 9 in 2,923? = 900 (K) · What is the value of the 5 in 8,251? = 50 (H) · What is the value of the 7 in 741? = 700 (O) · What is the value of the 2 in 218? = 200 (E) · What is the value of the 4 in 401? = 400 (S) · What is the value of the 6 in 36,880? = 6000 (M)

Clue 4 (Rounding): "WE FOUND A BLUE BANDANA AT THE SCENE"

Round 77 to the nearest ten = 80 (W) · Round 403 to the nearest hundred = 400 (L) · Round 844 to the nearest hundred = 800 (D) · Round 1,777 to the nearest thousand = 2000 (B) · Round 34 to the nearest ten = 30 (O) · Round 209 to the nearest hundred = 200 (N) · Round 40 to the nearest ten = 40 (S) · Round 61 to the nearest ten = 60 (H) · Round 22 to the nearest ten = 20 (U) · Round 46 to the nearest ten = 50 (A) · Round 695 to the nearest hundred = 700 (C) · Round 7,101 to the nearest thousand = 7000 (F) · Round 8,791 to the nearest thousand = 9000 (E) · Round 4,392 to the nearest thousand = 4000 (T)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Eli

$80 \div 10 = 8$ · $7 \div 7 = 1$ · $45 \div 5 = 9$ · $11 \div 1 = 11$ · $60 \div 10 = 6$ · $25 \div 5 = 5$ · $30 \div 10 = 3$ · $132 \div 11 = 12$ · $20 \div 10 = 2$ · $24 \div 6 = 4$ · $20 \div 2 = 10$