



The Stolen Compass of Sunken Creek

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

Detective: _____ Date: _____

Someone snuck into the camp lodge and took the Golden Compass! Help Counselor Sam follow the clues and catch the mystery bandit before sunset.

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 camp bandit is _____

Possible suspects

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

NAME	GEAR TOOL	POCKET ITEM	DOMINANT HAND	HAIR STYLE	SECRET FLAW
Toby Trail	Flashlight Glove	Tracking Map	Right Handed	Curly Blonde Hair	Squeaky Shoes
Jack Summit	Flashlight Glove	Lasso Rope	Left Handed	Curly Blonde Hair	Loud Sniffing
Zoe Rover	Compass Ring	Binoculars	Left Handed	Curly Blonde Hair	Squeaky Shoes
Kai River	Glider Wings	Lasso Rope	Left Handed	Curly Blonde Hair	Squeaky Shoes
Sammy Woods	Compass Ring	Whistle Alarm	Right Handed	Curly Blonde Hair	Squeaky Shoes
Luke Marsh	Flashlight Glove	Smoke Bomb	Left Handed	Spiky Red Hair	Fear of Frogs
Chloe Coast	Climbing Claws	Tracking Map	Left Handed	Curly Blonde Hair	Loud Sniffing
Tara Birch	Climbing Claws	Tracking Map	Left Handed	Spiky Red Hair	Fear of Frogs
Maya Hiker	Flashlight Glove	Tracking Map	Left Handed	Curly Blonde Hair	Squeaky Shoes
Rory Ranger	Compass Ring	Lasso Rope	Left Handed	Curly Blonde Hair	Squeaky Shoes
Pia Peak	Flashlight Glove	Binoculars	Left Handed	Braided Black Hair	Squeaky Shoes
Mason Meadow	Flashlight Glove	Lasso Rope	Left Handed	Spiky Red Hair	Squeaky Shoes
Owen Stream	Climbing Claws	Binoculars	Left Handed	Curly Blonde Hair	Fear of Frogs
Leo Scout	Flashlight Glove	Binoculars	Right Handed	Spiky Red Hair	Loud Sniffing
Ivy Forest	Flashlight Glove	Smoke Bomb	Left Handed	Braided Black Hair	Loud Sniffing
Ben Tracker	Flashlight Glove	Tracking Map	Left Handed	Spiky Red Hair	Fear of Frogs
Sora Swift	Flashlight Glove	Binoculars	Left Handed	Curly Blonde Hair	Loud Sniffing
Nia Pine	Grappling Hook	Whistle Alarm	Right Handed	Spiky Red Hair	Loud Sniffing
Ruby Valley	Climbing Claws	Whistle Alarm	Left Handed	Curly Blonde Hair	Squeaky Shoes
Ella Canyon	Glider Wings	Lasso Rope	Right Handed	Curly Blonde Hair	Squeaky Shoes
Finn Ridge	Climbing Claws	Tracking Map	Left Handed	Braided Black Hair	Loud Sniffing

CLUE 1 Addition

Counselor Sam added up all the lost supply crates found on the trail to unlock the first clue.

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

T 4073	2586	4858	9644	9526	5254	9170	5300	T 4073	9170	5300	9170	5254	3480	T 4073	9424	2568	4858	9526
3169	2586	5300	2568	T 4073	6911	4858	9526	6911	9526	6274	9654							

$1808 + 2265 = \boxed{} \rightarrow \boxed{T}$

$3063 + 3848 = \boxed{} \rightarrow \boxed{L}$

$6300 + 3344 = \boxed{} \rightarrow \boxed{B}$

$6212 + 3442 = \boxed{} \rightarrow \boxed{M}$

$1937 + 3363 = \boxed{} \rightarrow \boxed{I}$

$3629 + 1625 = \boxed{} \rightarrow \boxed{N}$

$2033 + 1136 = \boxed{} \rightarrow \boxed{W}$

$4386 + 5140 = \boxed{} \rightarrow \boxed{A}$

$3295 + 1563 = \boxed{} \rightarrow \boxed{E}$

$1237 + 1331 = \boxed{} \rightarrow \boxed{S}$

$1041 + 1545 = \boxed{} \rightarrow \boxed{H}$

$5570 + 3854 = \boxed{} \rightarrow \boxed{U}$

$2196 + 4078 = \boxed{} \rightarrow \boxed{R}$

$1197 + 2283 = \boxed{} \rightarrow \boxed{O}$

$3518 + 5652 = \boxed{} \rightarrow \boxed{D}$

Scratch space:

CLUE 2 Rounding

The trail scanner radar only showed rounded distance numbers when tracking the intruder.

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

T					T												T
130	170	110	3700	70	130	2300	110	7000	7000	7000	1300	3700	1300	5000	110	50	130
									T								T
170	1300	2300	9000	110	9000	50	3000	3000	130	290	4300	70	2300	130			

Round 133 to the nearest ten → **T**

Round 3,734 to the nearest hundred → **W**

Round 169 to the nearest ten → **H**

Round 110 to the nearest ten → **E**

Round 7,459 to the nearest thousand → **S**

Round 4,304 to the nearest hundred → **R**

Round 67 to the nearest ten → **I**

Round 2,337 to the nearest hundred → **N**

Round 9,282 to the nearest thousand → **D**

Round 5,212 to the nearest thousand → **L**

Round 1,278 to the nearest hundred → **A**

Round 46 to the nearest ten → **F**

Round 3,204 to the nearest thousand → **O**

Round 286 to the nearest ten → **P**

Scratch space:

CLUE 3

Subtraction

Sam subtracted the missing trail markers from the total count to reveal the next note.

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

S							S				S				
1723	8030	8018	8161	8556	8945	1648	1723	5030	3360	8161	1723	1793	8161	1843	8161
5030	8161	8556	1843	2092	8556	5603	5603	5030	8161	1228	3360	2092	8122	8161	

$3617 - 1894 = \square \rightarrow \boxed{\text{S}}$

$10739 - 2617 = \square \rightarrow \boxed{\text{G}}$

$12069 - 3908 = \square \rightarrow \boxed{\text{E}}$

$9617 - 4014 = \square \rightarrow \boxed{\text{T}}$

$3781 - 1938 = \square \rightarrow \boxed{\text{R}}$

$11426 - 3408 = \square \rightarrow \boxed{\text{U}}$

$10416 - 1860 = \square \rightarrow \boxed{\text{A}}$

$2344 - 252 = \square \rightarrow \boxed{\text{D}}$

$4306 - 2658 = \square \rightarrow \boxed{\text{Y}}$

$12258 - 4228 = \square \rightarrow \boxed{\text{Q}}$

$8873 - 3843 = \square \rightarrow \boxed{\text{H}}$

$7917 - 4557 = \square \rightarrow \boxed{\text{O}}$

$10487 - 1542 = \square \rightarrow \boxed{\text{K}}$

$2174 - 946 = \square \rightarrow \boxed{\text{L}}$

$5502 - 3709 = \square \rightarrow \boxed{\text{W}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The scouts organized rows of camp tents to calculate the code on the cabin lock.

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

C																	
70	21	63	33	25	132	33	121	96	6	99	1	42	81	63	9	42	30
3	121	21	96	6	96	99	42	63	88	1	99	88	99	96	88		

$10 \times 7 = \square \rightarrow \boxed{\text{C}}$

$9 \times 9 = \square \rightarrow \boxed{\text{I}}$

$5 \times 6 = \square \rightarrow \boxed{\text{S}}$

$1 \times 1 = \square \rightarrow \boxed{\text{H}}$

$3 \times 11 = \square \rightarrow \boxed{\text{L}}$

$6 \times 7 = \square \rightarrow \boxed{\text{A}}$

$12 \times 11 = \square \rightarrow \boxed{\text{B}}$

$8 \times 11 = \square \rightarrow \boxed{\text{T}}$

$12 \times 8 = \square \rightarrow \boxed{\text{N}}$

$6 \times 1 = \square \rightarrow \boxed{\text{D}}$

$3 \times 7 = \square \rightarrow \boxed{\text{U}}$

$9 \times 11 = \square \rightarrow \boxed{\text{E}}$

$1 \times 3 = \square \rightarrow \boxed{\text{F}}$

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

$1 \times 9 = \square \rightarrow \boxed{\text{W}}$

$9 \times 7 = \square \rightarrow \boxed{\text{R}}$

$11 \times 11 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

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

Sam split the leftover snack packs equally among the hiking groups to get the final hint.

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:

$144 \div 12 = \boxed{}$

$56 \div 8 = \boxed{}$

$60 \div 10 = \boxed{}$

$54 \div 6 = \boxed{}$

$32 \div 4 = \boxed{}$

$14 \div 7 = \boxed{}$

$6 \div 2 = \boxed{}$

$40 \div 10 = \boxed{}$

$15 \div 3 = \boxed{}$

$40 \div 4 = \boxed{}$

$77 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain glided down from the watchtower, then tied up the latch with a lasso rope.
2. The villain swung across the stream with a hook, then tied up the latch with a lasso rope.
3. The villain scaled the steep rock wall with claws, then dropped a smoke bomb in the bushes.
4. The villain glided down from the watchtower, then dropped a smoke bomb in the bushes.
5. The villain lit up the old cabin with a glove, then spotted the patrol with binoculars.
6. The villain lit up the old cabin with a glove, then consulted a tracking map under a tree.
7. The villain navigated the dark path with a ring, then spotted the patrol with binoculars.
8. The villain swung across the stream with a hook, then consulted a tracking map under a tree.
9. The villain swung across the stream with a hook, then blew a loud whistle alarm by accident.
10. The villain glided down from the watchtower, then spotted the patrol with binoculars.
11. The villain lit up the old cabin with a glove, then dropped a smoke bomb in the bushes.
12. The villain navigated the dark path with a ring, then tied up the latch with a lasso rope.

Answer Key

The Stolen Compass of Sunken Creek

Culprit: Kai River

Glider Wings · Lasso Rope · Left Handed · Curly Blonde Hair · Squeaky Shoes

Trail: Start 21 → Clue 1 18 → Clue 2 15 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DID NOT USE A WHISTLE ALARM"

$1808 + 2265 = 4073$ (T) · $3063 + 3848 = 6911$ (L) · $6300 + 3344 = 9644$ (B) · $6212 + 3442 = 9654$ (M) · $1937 + 3363 = 5300$ (I) · $3629 + 1625 = 5254$ (N) · $2033 + 1136 = 3169$ (W) · $4386 + 5140 = 9526$ (A) · $3295 + 1563 = 4858$ (E) · $1237 + 1331 = 2568$ (S) · $1041 + 1545 = 2586$ (H) · $5570 + 3854 = 9424$ (U) · $2196 + 4078 = 6274$ (R) · $1197 + 2283 = 3480$ (O) · $3518 + 5652 = 9170$ (D)

Clue 2 (Rounding): "THE WITNESS SAW A LEFT HANDED FOOTPRINT"

Round 133 to the nearest ten = 130 (T) · Round 3,734 to the nearest hundred = 3700 (W) · Round 169 to the nearest ten = 170 (H) · Round 110 to the nearest ten = 110 (E) · Round 7,459 to the nearest thousand = 7000 (S) · Round 4,304 to the nearest hundred = 4300 (R) · Round 67 to the nearest ten = 70 (I) · Round 2,337 to the nearest hundred = 2300 (N) · Round 9,282 to the nearest thousand = 9000 (D) · Round 5,212 to the nearest thousand = 5000 (L) · Round 1,278 to the nearest hundred = 1300 (A) · Round 46 to the nearest ten = 50 (F) · Round 3,204 to the nearest thousand = 3000 (O) · Round 286 to the nearest ten = 290 (P)

Clue 3 (Subtraction): "SQUEAKY SHOES WERE HEARD AT THE LODGE"

$3617 - 1894 = 1723$ (S) · $10739 - 2617 = 8122$ (G) · $12069 - 3908 = 8161$ (E) · $9617 - 4014 = 5603$ (T) · $3781 - 1938 = 1843$ (R) · $11426 - 3408 = 8018$ (U) · $10416 - 1860 = 8556$ (A) · $2344 - 252 = 2092$ (D) · $4306 - 2658 = 1648$ (Y) · $12258 - 4228 = 8030$ (Q) · $8873 - 3843 = 5030$ (H) · $7917 - 4557 = 3360$ (O) · $10487 - 1542 = 8945$ (K) · $2174 - 946 = 1228$ (L) · $5502 - 3709 = 1793$ (W)

Clue 4 (Multiplication facts (1-12)): "CURLY BLONDE HAIR WAS FOUND NEAR THE TENT"

$10 \times 7 = 70$ (C) · $9 \times 9 = 81$ (I) · $5 \times 6 = 30$ (S) · $1 \times 1 = 1$ (H) · $3 \times 11 = 33$ (L) · $6 \times 7 = 42$ (A) · $12 \times 11 = 132$ (B) · $8 \times 11 = 88$ (T) · $12 \times 8 = 96$ (N) · $6 \times 1 = 6$ (D) · $3 \times 7 = 21$ (U) · $9 \times 11 = 99$ (E) · $1 \times 3 = 3$ (F) · $5 \times 5 = 25$ (Y) · $1 \times 9 = 9$ (W) · $9 \times 7 = 63$ (R) · $11 \times 11 = 121$ (O)

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

$144 \div 12 = 12$ · $56 \div 8 = 7$ · $60 \div 10 = 6$ · $54 \div 6 = 9$ · $32 \div 4 = 8$ · $14 \div 7 = 2$ · $6 \div 2 = 3$ · $40 \div 10 = 4$ · $15 \div 3 = 5$ · $40 \div 4 = 10$ · $77 \div 7 = 11$