



The Golden Macaw Mystery

Grade 3 math · Addition, Subtraction, Place value, Rounding, Division · Reading level grades 5-6

Detective: _____ Date: _____

A priceless golden artifact has vanished from our base camp under the cover of darkness. One of our own crew members has taken it and fled into the jungle! We must follow the clues and track down the culprit before they escape.

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 Explorer 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	JUNGLE SKILL	COMPASS HAND	EXPLORER HAT	PHOBIA
Indiana Jones	Decoder Ring	Vine Swinging	Left-handed	Boone Cap	Scared of Spiders
Victor Sullivan	Decoder Ring	River Rafting	Left-handed	Boone Cap	Scared of Spiders
Danny Boy	Machete	Map Reading	Right-handed	Safari Fedora	Scared of Spiders
Lara Croft	Decoder Ring	Vine Swinging	Left-handed	Safari Fedora	Scared of Heights
Evelyn Carnahan	Spyglass	Vine Swinging	Left-handed	Boone Cap	Scared of Spiders
Rick OConnell	Spyglass	Tree Climbing	Left-handed	Boone Cap	Scared of Heights
Jack Wilder	Grappling Hook	River Rafting	Left-handed	Boone Cap	Scared of Spiders
Jane Porter	Grappling Hook	Map Reading	Left-handed	Boone Cap	Scared of Spiders
Percy Fawcett	Grappling Hook	Map Reading	Right-handed	Boone Cap	Scared of Spiders
Nathan Drake	Flashlight	Map Reading	Right-handed	Pith Helmet	Scared of Spiders
Alisha Vance	Decoder Ring	Map Reading	Left-handed	Pith Helmet	Scared of Spiders
Allan Quatermain	Grappling Hook	River Rafting	Right-handed	Safari Fedora	Scared of Spiders
Mary Kingsley	Spyglass	Animal Mimicry	Right-handed	Safari Fedora	Scared of Water
Leo Valdez	Decoder Ring	Tree Climbing	Right-handed	Boone Cap	Scared of Heights
Ellie Sattler	Grappling Hook	Map Reading	Right-handed	Pith Helmet	Scared of Spiders
Steve Irwin	Machete	Vine Swinging	Left-handed	Boone Cap	Scared of Water
Hiram Bingham	Decoder Ring	Vine Swinging	Right-handed	Boone Cap	Scared of Heights
Roy Chapman	Machete	Animal Mimicry	Right-handed	Pith Helmet	Scared of Water
Sven Stone	Machete	Tree Climbing	Left-handed	Boone Cap	Scared of Spiders
Elena Fisher	Flashlight	Tree Climbing	Right-handed	Safari Fedora	Scared of Heights
Alan Grant	Flashlight	Tree Climbing	Left-handed	Safari Fedora	Scared of Heights

CLUE 1 Addition

We found a discarded supply crate near the camp perimeter. To figure out how many days of rations the thief took, we need to add up the scattered bean cans and jerky packs left behind.

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

Top row boxes (from left to right):

- Box 1: T (orange)
- Box 2:
- Box 3:
- Box 4:
- Box 5:
- Box 6:
- Box 7:
- Box 8:
- Box 9:
- Box 10:
- Box 11:
- Box 12:
- Box 13:
- Box 14:
- Box 15:
- Box 16:
- Box 17: T (orange)

Numbers below top row boxes (from left to right):

- 695
- 235
- 700
- 315
- 369
- 635
- 635
- 335
- 369
- 486
- 965
- 411
- 700
- 265
- 486
- 411
- 695

Bottom row boxes (from left to right):

- Box 1:
- Box 2:
- Box 3:
- Box 4:
- Box 5:
- Box 6:
- Box 7:
- Box 8:
- Box 9:
- Box 10:
- Box 11:

Numbers below bottom row boxes (from left to right):

- 265
- 474
- 369
- 486
- 274
- 411
- 486
- 315
- 369
- 486
- 700
- 265

$$453 + 242 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$250 + 161 = \boxed{} \rightarrow \boxed{0}$$

$$173 + 162 = \boxed{} \rightarrow \boxed{\text{A}}$$

$175 + 90 = \boxed{} \rightarrow \boxed{\text{S}}$

$$144 + 171 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$$160 + 75 = \boxed{} \rightarrow \boxed{\text{H}}$$

$288 + 198 = \boxed{} \rightarrow \mathbf{N}$

$436 + 529 = \boxed{} \rightarrow \mathbf{D}$

$$403 + 232 = \boxed{} \rightarrow \boxed{} \text{ L}$$

$93 + 181 = \boxed{} \rightarrow \boxed{\text{G}}$

$402 + 298 = \boxed{} \rightarrow \boxed{\text{E}}$

$$186 + 288 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$239 + 130 = \boxed{} \rightarrow \boxed{}$

Scratch space:

CLUE 2 Subtraction

Our guide noticed that several climbing carabiners are missing from the main gear rack. If we subtract the remaining clips from our starting total, we will know exactly how much weight the runner is carrying.

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

T													T		
749	899	252	442	543	808	808	466	543	444	354	274	543	749	252	560
		T					T		T						T
444	709	749	252	560	354	543	749	899	749	899	252	808	252	180	749
899	466	444	401												

$1006 - 257 = \square \rightarrow$ T	$471 - 197 = \square \rightarrow$ R	$538 - 94 = \square \rightarrow$ N
$908 - 365 = \square \rightarrow$ I	$639 - 238 = \square \rightarrow$ D	$541 - 187 = \square \rightarrow$ W
$338 - 86 = \square \rightarrow$ E	$924 - 25 = \square \rightarrow$ H	$555 - 375 = \square \rightarrow$ F
$994 - 186 = \square \rightarrow$ L	$737 - 177 = \square \rightarrow$ S	$452 - 10 = \square \rightarrow$ V
$1043 - 334 = \square \rightarrow$ O	$861 - 395 = \square \rightarrow$ A	

Scratch space:

CLUE 3 Place value

To unlock the temple's outer gate, we have to decipher an ancient stone combinations dial. We must look closely at the digit in the hundreds place to spin the massive gears correctly.

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

T																		
20	800	40	6000	400	40	500	900	600	500	400	500	9000	500	5000	200	600	50	3000
500	90	100	400	70	60	40	6000	7000	8000	10	40	600						

What is the value of the 2 in 424? → **T**

What is the value of the 1 in 2,173? → **U**

What is the value of the 6 in 9,561? → **L**

What is the value of the 7 in 87,803? → **P**

What is the value of the 8 in 862? → **H**

What is the value of the 6 in 671? → **R**

What is the value of the 6 in 6,522? → **S**

What is the value of the 9 in 89,204? → **W**

What is the value of the 5 in 25,786? → **Y**

What is the value of the 2 in 6,298? → **F**

What is the value of the 7 in 9,378? → **G**

What is the value of the 9 in 928? → **K**

What is the value of the 5 in 517? → **A**

What is the value of the 9 in 3,296? → **J**

What is the value of the 4 in 945? → **E**

What is the value of the 4 in 6,480? → **N**

What is the value of the 5 in 6,259? → **O**

What is the value of the 8 in 8,591? → **I**

What is the value of the 3 in 73,764? → **M**

What is the value of the 1 in 4,910? → **D**

Scratch space:

CLUE 4 Rounding

The heat-seeking radar can track footprints through the thick canopy, but its screen is damaged and only displays distances rounded to the nearest ten meters. Let's round our readings to get a clear heading.

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

A																	
300	9000	3000	5000	5000	40	400	60	60	800	6000	80	300	4000	700	300	2000	
		A							A								
2000	800	300	90	90	6000	50	60	800	300	900	20	60	5000	800			

Round 341 to the nearest hundred → **A**

Round 41 to the nearest ten → **Y**

Round 94 to the nearest ten → **G**

Round 52 to the nearest ten → **D**

Round 4,097 to the nearest thousand → **P**

Round 57 to the nearest ten → **O**

Round 2,840 to the nearest thousand → **U**

Round 807 to the nearest hundred → **N**

Round 2,150 to the nearest thousand → **S**

Round 77 to the nearest ten → **C**

Round 867 to the nearest hundred → **T**

Round 18 to the nearest ten → **H**

Round 4,675 to the nearest thousand → **R**

Round 663 to the nearest hundred → **W**

Round 6,094 to the nearest thousand → **E**

Round 8,700 to the nearest thousand → **F**

Round 388 to the nearest hundred → **B**

Scratch space:

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

We found footprints leading to three distinct lookout points. If the suspects split their stolen gold coins evenly among these three camps, how many did each lookout receive?

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:

$36 \div 3 = \boxed{}$

$60 \div 6 = \boxed{}$

$3 \div 1 = \boxed{}$

$36 \div 6 = \boxed{}$

$16 \div 4 = \boxed{}$

$9 \div 9 = \boxed{}$

$15 \div 3 = \boxed{}$

$48 \div 6 = \boxed{}$

$81 \div 9 = \boxed{}$

$33 \div 3 = \boxed{}$

$21 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings a machete to clear the thick brush, then paddles a makeshift raft down the rapids.
2. The villain swings a machete to clear the thick brush, then scrambles up a tall mahogany tree.
3. The villain uses a grappling hook to scale the wall, then plots a shortcut on a dusty old map.
4. The villain peers through a spyglass to spot the trail, then plots a shortcut on a dusty old map.
5. The villain swings a machete to clear the thick brush, then leaps across the gorge using a sturdy vine.
6. The villain uses a grappling hook to scale the wall, then fools the guards with a parrot call.
7. The villain peers through a spyglass to spot the trail, then scrambles up a tall mahogany tree.
8. The villain decodes a secret wall carving with the ring, then scrambles up a tall mahogany tree.
9. The villain decodes a secret wall carving with the ring, then plots a shortcut on a dusty old map.
10. The villain decodes a secret wall carving with the ring, then paddles a makeshift raft down the rapids.
11. The villain uses a grappling hook to scale the wall, then scrambles up a tall mahogany tree.
12. The villain uses a grappling hook to scale the wall, then paddles a makeshift raft down the rapids.

Answer Key

The Golden Macaw Mystery

Culprit: Sven Stone

Machete · Tree Climbing · Left-handed · Boone Cap · Scared of Spiders

Trail: Start 21 → Clue 1 16 → Clue 2 7 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT SWING ON VINES"

$453 + 242 = 695$ (T) · $250 + 161 = 411$ (O) · $173 + 162 = 335$ (A) · $175 + 90 = 265$ (S) · $144 + 171 = 315$ (V) · $160 + 75 = 235$ (H) · $288 + 198 = 486$ (N) · $436 + 529 = 965$ (D) · $403 + 232 = 635$ (L) · $93 + 181 = 274$ (G) · $402 + 298 = 700$ (E) · $186 + 288 = 474$ (W) · $239 + 130 = 369$ (I)

Clue 2 (Subtraction): "THE VILLAIN WRITES NOTES WITH THE LEFT HAND"

$1006 - 257 = 749$ (T) · $471 - 197 = 274$ (R) · $538 - 94 = 444$ (N) · $908 - 365 = 543$ (I) · $639 - 238 = 401$ (D) · $541 - 187 = 354$ (W) · $338 - 86 = 252$ (E) · $924 - 25 = 899$ (H) · $555 - 375 = 180$ (F) · $994 - 186 = 808$ (L) · $737 - 177 = 560$ (S) · $452 - 10 = 442$ (V) · $1043 - 334 = 709$ (O) · $861 - 395 = 466$ (A)

Clue 3 (Place value): "THE SNEAK RAN AWAY FROM A JUNGLE SPIDER"

What is the value of the 2 in 424? = 20 (T) · What is the value of the 1 in 2,173? = 100 (U) · What is the value of the 6 in 9,561? = 60 (L) · What is the value of the 7 in 87,803? = 7000 (P) · What is the value of the 8 in 862? = 800 (H) · What is the value of the 6 in 671? = 600 (R) · What is the value of the 6 in 6,522? = 6000 (S) · What is the value of the 9 in 89,204? = 9000 (W) · What is the value of the 5 in 25,786? = 5000 (Y) · What is the value of the 2 in 6,298? = 200 (F) · What is the value of the 7 in 9,378? = 70 (G) · What is the value of the 9 in 928? = 900 (K) · What is the value of the 5 in 517? = 500 (A) · What is the value of the 9 in 3,296? = 90 (J) · What is the value of the 4 in 945? = 40 (E) · What is the value of the 4 in 6,480? = 400 (N) · What is the value of the 5 in 6,259? = 50 (O) · What is the value of the 8 in 8,591? = 8000 (I) · What is the value of the 3 in 73,764? = 3000 (M) · What is the value of the 1 in 4,910? = 10 (D)

Clue 4 (Rounding): "A FURRY BOONE CAP WAS SNAGGED ON A THORN"

Round 341 to the nearest hundred = 300 (A) · Round 41 to the nearest ten = 40 (Y) · Round 94 to the nearest ten = 90 (G) · Round 52 to the nearest ten = 50 (D) · Round 4,097 to the nearest thousand = 4000 (P) · Round 57 to the nearest ten = 60 (O) · Round 2,840 to the nearest thousand = 3000 (U) · Round 807 to the nearest hundred = 800 (N) · Round 2,150 to the nearest thousand = 2000 (S) · Round 77 to the nearest ten = 80 (C) · Round 867 to the nearest hundred = 900 (T) · Round 18 to the nearest ten = 20 (H) · Round 4,675 to the nearest thousand = 5000 (R) · Round 663 to the nearest hundred = 700 (W) · Round 6,094 to the nearest thousand = 6000 (E) · Round 8,700 to the nearest thousand = 9000 (F) · Round 388 to the nearest hundred = 400 (B)

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

$36 \div 3 = 12$ · $60 \div 6 = 10$ · $3 \div 1 = 3$ · $36 \div 6 = 6$ · $16 \div 4 = 4$ · $9 \div 9 = 1$ · $15 \div 3 = 5$ · $48 \div 6 = 8$ · $81 \div 9 = 9$ · $33 \div 3 = 11$ · $21 \div 3 = 7$