



# The Canopy Temple Mystery

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

**Detective:** \_\_\_\_\_ **Date:** \_\_\_\_\_

An sneaky Rogue Ranger has stolen the ancient Golden Compass from the Chief Archeologist's treehouse camp! We need to track them down using clues left in the mud and vines.

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 Ranger is** \_\_\_\_\_

# Possible suspects

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

| NAME             | ADVENTURE TOOL    | JUNGLE PET        | FOOTPRINT TYPE  | HAT COLOR    | FEAR            |
|------------------|-------------------|-------------------|-----------------|--------------|-----------------|
| Lara Croft       | Vibrant Slingshot | Golden Toucan     | Right Boot Mark | Brown Fedora | Fear of Water   |
| Robin Hood       | Brass Compass     | Chattering Monkey | Left Boot Mark  | Red Bandana  | Fear of Bugs    |
| Kiara Savannah   | Vibrant Slingshot | Spotted Panther   | Left Boot Mark  | Red Bandana  | Fear of Bugs    |
| Link Forest      | Laser Flashlight  | Sneaky Parrot     | Right Boot Mark | Red Bandana  | Fear of Water   |
| Nathan Drake     | Brass Compass     | Golden Toucan     | Left Boot Mark  | Brown Fedora | Fear of Bugs    |
| Diego Rescue     | Laser Flashlight  | Golden Toucan     | Right Boot Mark | Red Bandana  | Fear of Bugs    |
| Henry Hudson     | Brass Compass     | Spotted Panther   | Right Boot Mark | Green Helmet | Fear of Water   |
| Sacagawea Path   | Brass Compass     | Spotted Panther   | Left Boot Mark  | Brown Fedora | Fear of Heights |
| Lewis Ranger     | Laser Flashlight  | Chattering Monkey | Left Boot Mark  | Red Bandana  | Fear of Water   |
| Indiana Jones    | Vibrant Slingshot | Bright Tree Frog  | Right Boot Mark | Brown Fedora | Fear of Bugs    |
| Jacques Cousteau | Brass Compass     | Bright Tree Frog  | Left Boot Mark  | Red Bandana  | Fear of Water   |
| Steve Irwin      | Laser Flashlight  | Golden Toucan     | Left Boot Mark  | Red Bandana  | Fear of Bugs    |
| Nellie Bly       | Brass Compass     | Chattering Monkey | Right Boot Mark | Green Helmet | Fear of Heights |
| Daniel Boone     | Vibrant Slingshot | Golden Toucan     | Left Boot Mark  | Brown Fedora | Fear of Bugs    |
| Zelda Wild       | Jungle Machete    | Golden Toucan     | Left Boot Mark  | Red Bandana  | Fear of Bugs    |
| Dora Explorer    | Jungle Machete    | Spotted Panther   | Left Boot Mark  | Brown Fedora | Fear of Heights |
| Marco Polo       | Brass Compass     | Golden Toucan     | Left Boot Mark  | Red Bandana  | Fear of Heights |
| Jane Goodall     | Grappling Hook    | Golden Toucan     | Right Boot Mark | Brown Fedora | Fear of Water   |
| Bindi Jungle     | Vibrant Slingshot | Bright Tree Frog  | Left Boot Mark  | Red Bandana  | Fear of Bugs    |
| Alonzo Trail     | Laser Flashlight  | Spotted Panther   | Right Boot Mark | Green Helmet | Fear of Bugs    |
| Clark Scout      | Brass Compass     | Spotted Panther   | Left Boot Mark  | Red Bandana  | Fear of Water   |

### CLUE 1

Our ancient jungle radar is old and only shows numbers rounded to the nearest ten. We estimated the footsteps of the fleeing suspect to decode this clue.

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

130 370 500 200 5000 230 230 2300 5000 3700 1300 430 500 900 3700 430 130

370 2300 200 500 2300 130 3000 500 500 1700 3000 430 7000

Round 134 to the nearest ten   $\rightarrow$  **T**

Round 2,274 to the nearest hundred  → **A**

Round 6,918 to the nearest thousand  → **G**

Round 1,707 to the nearest hundred   $\rightarrow$  **F**

Round 3,004 to the nearest thousand  → **R**

Round 3,673 to the nearest hundred  → **N**

Round 170 to the nearest hundred   $\rightarrow$  **V**

Round 906 to the nearest hundred   $\rightarrow$  **S**

Round 1,304 to the nearest hundred  → **D**

Round 5,417 to the nearest thousand   $\rightarrow$

Round 478 to the nearest hundred  → **E**

Round 434 to the nearest ten   $\rightarrow$  **0**

Round 230 to the nearest ten   $\rightarrow$  **L**

Round 373 to the nearest ten   $\rightarrow$  **H**

Scratch space:

## CLUE 2 Addition

We gathered all the fallen map pieces scattered along the forest floor. Adding them all up reveals a secret message written in invisible sap.

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

|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>W</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2170     | 4123 | 5382 | 6415 | 7241 | 7048 | 3771 | 8473 | 3771 | 4123 | 4123 | 6973 | 9736 | 4123 | 5382 | 9000 |
|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3894     | 6415 | 6415 | 9000 | 2974 | 8473 | 2644 | 2918 | 7971 | 7048 | 9000 | 6910 | 4123 | 2974 | 7241 | 3771 |

|                                                |                                                |                                                |
|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| $1087 + 1083 = \square \rightarrow \mathbf{W}$ | $5441 + 3559 = \square \rightarrow \mathbf{T}$ | $2854 + 1269 = \square \rightarrow \mathbf{E}$ |
| $832 + 1812 = \square \rightarrow \mathbf{R}$  | $2711 + 1183 = \square \rightarrow \mathbf{B}$ | $1879 + 1039 = \square \rightarrow \mathbf{K}$ |
| $4389 + 2852 = \square \rightarrow \mathbf{U}$ | $2728 + 5243 = \square \rightarrow \mathbf{I}$ | $4300 + 4173 = \square \rightarrow \mathbf{A}$ |
| $2681 + 2701 = \square \rightarrow \mathbf{F}$ | $3395 + 3653 = \square \rightarrow \mathbf{N}$ | $1341 + 2430 = \square \rightarrow \mathbf{D}$ |
| $3437 + 6299 = \square \rightarrow \mathbf{L}$ | $2076 + 4834 = \square \rightarrow \mathbf{H}$ | $1027 + 1947 = \square \rightarrow \mathbf{M}$ |
| $2939 + 4034 = \square \rightarrow \mathbf{P}$ | $2902 + 3513 = \square \rightarrow \mathbf{O}$ |                                                |

Scratch space:

## CLUE 3 Subtraction

The thief stole some of our trail supplies. By subtracting what is left from what we started with, we found the path they took!

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

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| T    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6147 | 1959 | 8201 | 8592 | 1985 | 5914 | 5566 | 4933 | 7875 | 4474 | 8201 | 4154 | 8592 | 1985 | 4474 | 8201 | 1503 | 4470 | 8201 | 7875 |

  

|      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
|      | T    |      | T    |      |      |      |      |      |      |      |      |      |  |
| 1503 | 6147 | 1503 | 6147 | 8028 | 4933 | 4591 | 8592 | 6774 | 8028 | 7875 | 8201 | 4474 |  |

$$9264 - 3117 = \boxed{\phantom{000}} \rightarrow \boxed{\text{T}}$$

$$2440 - 937 = \boxed{\phantom{000}} \rightarrow \boxed{\text{A}}$$

$$6653 - 2062 = \boxed{\phantom{000}} \rightarrow \boxed{\text{Y}}$$

$$6911 - 997 = \boxed{\phantom{000}} \rightarrow \boxed{\text{O}}$$

$$4940 - 2955 = \boxed{\phantom{000}} \rightarrow \boxed{\text{C}}$$

$$9348 - 3782 = \boxed{\phantom{000}} \rightarrow \boxed{\text{U}}$$

$$8888 - 296 = \boxed{\phantom{000}} \rightarrow \boxed{\text{S}}$$

$$5918 - 3959 = \boxed{\phantom{000}} \rightarrow \boxed{\text{H}}$$

$$9086 - 1211 = \boxed{\phantom{000}} \rightarrow \boxed{\text{D}}$$

$$5324 - 854 = \boxed{\phantom{000}} \rightarrow \boxed{\text{M}}$$

$$5876 - 943 = \boxed{\phantom{000}} \rightarrow \boxed{\text{N}}$$

$$5269 - 1115 = \boxed{\phantom{000}} \rightarrow \boxed{\text{L}}$$

$$7345 - 571 = \boxed{\phantom{000}} \rightarrow \boxed{\text{P}}$$

$$4924 - 450 = \boxed{\phantom{000}} \rightarrow \boxed{\text{R}}$$

$$10094 - 1893 = \boxed{\phantom{000}} \rightarrow \boxed{\text{E}}$$

$$9912 - 1884 = \boxed{\phantom{000}} \rightarrow \boxed{\text{I}}$$

Scratch space:

## CLUE 4

## Multiplication facts (1-12)

We found a grid of ancient stone tiles blocking the temple gate. Multiplying the rows and columns opens the door to a hidden clue.

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

|     |     |     |    |     |    |    |     |    |    |    |     |    |     |     |    |     |
|-----|-----|-----|----|-----|----|----|-----|----|----|----|-----|----|-----|-----|----|-----|
| A   |     |     |    |     |    |    |     |    |    |    | A   |    |     | A   |    | A   |
| 108 | 55  | 121 | 72 | 81  | 12 | 35 | 121 | 20 | 64 | 55 | 108 | 49 | 64  | 108 | 49 | 108 |
|     | A   |     |    | A   |    |    |     |    |    |    | A   |    |     | A   |    |     |
| 7   | 108 | 8   | 90 | 108 | 70 | 81 | 12  | 35 | 10 | 49 | 108 | 55 | 121 | 108 | 49 | 90  |

$12 \times 9 = \square \rightarrow \boxed{\text{A}}$

$1 \times 8 = \square \rightarrow \boxed{\text{S}}$

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

$2 \times 5 = \square \rightarrow \boxed{\text{O}}$

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

$12 \times 1 = \square \rightarrow \boxed{\text{H}}$

$9 \times 10 = \square \rightarrow \boxed{\text{C}}$

$7 \times 7 = \square \rightarrow \boxed{\text{N}}$

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

$10 \times 2 = \square \rightarrow \boxed{\text{E}}$

$5 \times 7 = \square \rightarrow \boxed{\text{T}}$

$5 \times 11 = \square \rightarrow \boxed{\text{B}}$

$6 \times 12 = \square \rightarrow \boxed{\text{I}}$

$8 \times 8 = \square \rightarrow \boxed{\text{D}}$

$7 \times 1 = \square \rightarrow \boxed{\text{W}}$

Scratch space:

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

To search the river bank safely, we must split our team of junior rangers into equal groups. Sharing the gear fairly gives us our final lead.

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:**

$54 \div 9 = \boxed{\phantom{00}}$

$120 \div 12 = \boxed{\phantom{00}}$

$72 \div 9 = \boxed{\phantom{00}}$

$6 \div 6 = \boxed{\phantom{00}}$

$5 \div 1 = \boxed{\phantom{00}}$

$96 \div 8 = \boxed{\phantom{00}}$

$90 \div 10 = \boxed{\phantom{00}}$

$20 \div 5 = \boxed{\phantom{00}}$

$18 \div 9 = \boxed{\phantom{00}}$

$36 \div 12 = \boxed{\phantom{00}}$

$77 \div 7 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain swings across the river using a grappling hook, then signals the getaway crew with a golden toucan.
2. The villain navigates the winding trails with a brass compass, then speeds past the mud traps with a spotted panther.
3. The villain distracts the camp guards with a vibrant slingshot, then escapes into the trees with a chattering monkey.
4. The villain lights up the dark cave with a laser flashlight, then shares secret map details with a sneaky parrot.
5. The villain navigates the winding trails with a brass compass, then signals the getaway crew with a golden toucan.
6. The villain distracts the camp guards with a vibrant slingshot, then speeds past the mud traps with a spotted panther.
7. The villain cuts through the thick vines with a jungle machete, then signals the getaway crew with a golden toucan.
8. The villain navigates the winding trails with a brass compass, then escapes into the trees with a chattering monkey.
9. The villain distracts the camp guards with a vibrant slingshot, then shares secret map details with a sneaky parrot.
10. The villain lights up the dark cave with a laser flashlight, then signals the getaway crew with a golden toucan.
11. The villain lights up the dark cave with a laser flashlight, then speeds past the mud traps with a spotted panther.
12. The villain swings across the river using a grappling hook, then shares secret map details with a sneaky parrot.

# Answer Key

## The Canopy Temple Mystery

### Culprit: Zelda Wild

Jungle Machete · Golden Toucan · Left Boot Mark · Red Bandana · Fear of Bugs

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

#### Clue 1 (Rounding): "THE VILLAIN DOES NOT HAVE A TREE FROG"

Round 134 to the nearest ten = 130 (T) · Round 2,274 to the nearest hundred = 2300 (A) · Round 6,918 to the nearest thousand = 7000 (G) · Round 1,707 to the nearest hundred = 1700 (F) · Round 3,004 to the nearest thousand = 3000 (R) · Round 3,673 to the nearest hundred = 3700 (N) · Round 170 to the nearest hundred = 200 (V) · Round 906 to the nearest hundred = 900 (S) · Round 1,304 to the nearest hundred = 1300 (D) · Round 5,417 to the nearest thousand = 5000 (I) · Round 478 to the nearest hundred = 500 (E) · Round 434 to the nearest ten = 430 (O) · Round 230 to the nearest ten = 230 (L) · Round 373 to the nearest ten = 370 (H)

#### Clue 2 (Addition): "WE FOUND A DEEP LEFT BOOT MARK IN THE MUD"

$1087 + 1083 = 2170$  (W) ·  $5441 + 3559 = 9000$  (T) ·  $2854 + 1269 = 4123$  (E) ·  $832 + 1812 = 2644$  (R) ·  $2711 + 1183 = 3894$  (B) ·  $1879 + 1039 = 2918$  (K) ·  $4389 + 2852 = 7241$  (U) ·  $2728 + 5243 = 7971$  (I) ·  $4300 + 4173 = 8473$  (A) ·  $2681 + 2701 = 5382$  (F) ·  $3395 + 3653 = 7048$  (N) ·  $1341 + 2430 = 3771$  (D) ·  $3437 + 6299 = 9736$  (L) ·  $2076 + 4834 = 6910$  (H) ·  $1027 + 1947 = 2974$  (M) ·  $2939 + 4034 = 6973$  (P) ·  $2902 + 3513 = 6415$  (O)

#### Clue 3 (Subtraction): "THE SCOUNDREL SCREAMED AT A TINY SPIDER"

$9264 - 3117 = 6147$  (T) ·  $2440 - 937 = 1503$  (A) ·  $6653 - 2062 = 4591$  (Y) ·  $6911 - 997 = 5914$  (O) ·  $4940 - 2955 = 1985$  (C) ·  $9348 - 3782 = 5566$  (U) ·  $8888 - 296 = 8592$  (S) ·  $5918 - 3959 = 1959$  (H) ·  $9086 - 1211 = 7875$  (D) ·  $5324 - 854 = 4470$  (M) ·  $5876 - 943 = 4933$  (N) ·  $5269 - 1115 = 4154$  (L) ·  $7345 - 571 = 6774$  (P) ·  $4924 - 450 = 4474$  (R) ·  $10094 - 1893 = 8201$  (E) ·  $9912 - 1884 = 8028$  (I)

#### Clue 4 (Multiplication facts (1-12)): "A BRIGHT RED BANDANA WAS CAUGHT ON A BRANCH"

$12 \times 9 = 108$  (A) ·  $1 \times 8 = 8$  (S) ·  $11 \times 11 = 121$  (R) ·  $2 \times 5 = 10$  (O) ·  $9 \times 9 = 81$  (G) ·  $12 \times 1 = 12$  (H) ·  $9 \times 10 = 90$  (C) ·  $7 \times 7 = 49$  (N) ·  $10 \times 7 = 70$  (U) ·  $10 \times 2 = 20$  (E) ·  $5 \times 7 = 35$  (T) ·  $5 \times 11 = 55$  (B) ·  $6 \times 12 = 72$  (I) ·  $8 \times 8 = 64$  (D) ·  $7 \times 1 = 7$  (W)

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

$54 \div 9 = 6$  ·  $120 \div 12 = 10$  ·  $72 \div 9 = 8$  ·  $6 \div 6 = 1$  ·  $5 \div 1 = 5$  ·  $96 \div 8 = 12$  ·  $90 \div 10 = 9$  ·  $20 \div 5 = 4$  ·  $18 \div 9 = 2$  ·  $36 \div 12 = 3$  ·  $77 \div 7 = 11$