



The Mystery of the Golden Pineapple

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

Detective: _____ **Date:** _____

The legendary Golden Pineapple has been snatched from the central altar of the Whispering Vines temple! Our expedition needs you to follow the trails of jungle gear, sneaky tools, and unique habits to unmask the rogue explorer who took it.

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 Raider is _____

Possible suspects

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

NAME	JUNGLE SKILL	SPECIAL TOOL	COMPASS GRIP	HEADWEAR	FUNNY WEAKNESS
Forrest Fern	swings on jungle vines	blows a golden whistle	right handed compass	green explorer cap	tickled by hanging vines
Quinn Quick	decodes stone wall maps	uses a laser pointer	left handed compass	yellow pith helmet	fear of tiny frogs
Indiana Smith	swings on jungle vines	blows a golden whistle	left handed compass	green explorer cap	sneezes near wild orchids
Val Valley	tames the wild jaguars	throws a sticky grapple	right handed compass	brown safari helmet	sneezes near wild orchids
Lara Crate	disarms ancient dart traps	uses a laser pointer	right handed compass	brown safari helmet	fear of tiny frogs
Danny Daring	disarms ancient dart traps	rides a pocket dirtbike	right handed compass	green explorer cap	tickled by hanging vines
Dora Map	decodes stone wall maps	uses a laser pointer	left handed compass	brown safari helmet	fear of tiny frogs
Jack Journey	leaps over quicksand pits	blows a golden whistle	left handed compass	yellow pith helmet	fear of tiny frogs
Leo Leaf	leaps over quicksand pits	flies a pocket drone	right handed compass	yellow pith helmet	sneezes near wild orchids
Olivia Oasis	leaps over quicksand pits	uses a laser pointer	right handed compass	yellow pith helmet	fear of tiny frogs
Diego Rescue	swings on jungle vines	uses a laser pointer	left handed compass	green explorer cap	tickled by hanging vines
Hunter Hill	swings on jungle vines	rides a pocket dirtbike	left handed compass	green explorer cap	fear of tiny frogs
Parker Path	leaps over quicksand pits	blows a golden whistle	left handed compass	green explorer cap	tickled by hanging vines
Kira King	leaps over quicksand pits	rides a pocket dirtbike	left handed compass	green explorer cap	sneezes near wild orchids
Gemma Green	tames the wild jaguars	throws a sticky grapple	left handed compass	yellow pith helmet	fear of tiny frogs
River Runner	swings on jungle vines	flies a pocket drone	left handed compass	yellow pith helmet	fear of tiny frogs
Sally Scout	decodes stone wall maps	throws a sticky grapple	left handed compass	yellow pith helmet	sneezes near wild orchids
Nate Navigator	decodes stone wall maps	throws a sticky grapple	left handed compass	yellow pith helmet	fear of tiny frogs
Ivy Jungle	tames the wild jaguars	throws a sticky grapple	left handed compass	brown safari helmet	tickled by hanging vines
Maya Mound	leaps over quicksand pits	flies a pocket drone	left handed compass	yellow pith helmet	sneezes near wild orchids
Clara Canyon	decodes stone wall maps	flies a pocket drone	left handed compass	brown safari helmet	fear of tiny frogs

CLUE 1 Place value

The temple door has a dusty stone screen. It shows a giant code. We must find the digit in the tens place to unlock the next chamber.

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

T																T
400	100	900	40	200	3000	8000	900	40	8000	30	900	70	4000	30	400	
															T	
800	500	30	2000	200	10	30	500	8000	900	4000	2000	100	3000	70	400	500

What is the value of the 4 in 1,419? →

T

What is the value of the 3 in 838? →

O

What is the value of the 1 in 139? →

H

What is the value of the 8 in 1,835? →

B

What is the value of the 1 in 3,319? →

G

What is the value of the 4 in 4,516? →

N

What is the value of the 2 in 62,884? →

W

What is the value of the 7 in 176? →

S

What is the value of the 9 in 903? →

E

What is the value of the 8 in 38,949? →

D

What is the value of the 4 in 140? →

R

What is the value of the 3 in 63,557? →

I

What is the value of the 2 in 286? →

A

What is the value of the 5 in 2,539? →

L

Scratch space:

CLUE 2

We find a giant stone scale blocking the path. It only gives a weight rounded to the nearest ten. Let us round our heavy backpacks to proceed.

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

Round 167 to the nearest ten $\rightarrow$ **T**

Round 743 to the nearest hundred $\rightarrow$ **P**

Round 3,259 to the nearest thousand → **H**

Round 2,900 to the nearest hundred → **A**

Round 2,326 to the nearest hundred $\rightarrow$ **L**

Round 367 to the nearest ten $\rightarrow$ **F**

Round 4,798 to the nearest thousand $\rightarrow$

Round 27 to the nearest ten $\rightarrow$ **C**

Round 114 to the nearest ten → **N**

Round 923 to the nearest hundred $\rightarrow$ **D**

Round 19 to the nearest ten $\rightarrow$

Round 291 to the nearest ten $\rightarrow$ **S**

Round 1,656 to the nearest hundred → **E**

Round 4,278 to the nearest hundred → **M**

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

Scratch space:

CLUE 3 Addition

A swarm of friendly glowing beetles crawls on the wall. If we add the two groups together, they will light up our path.

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

T																
4719	6500	4889	7526	8362	6916	6916	3049	8362	7074	2906	3049	7074	3049	6682	3049	7324
					T											
6667	2906	8180	7313	3049	4719	8362	7074	7324	5194	2906	4889	4889	7074	6667	2906	8180

$2729 + 1990 = \square \rightarrow \text{T}$	$3315 + 4865 = \square \rightarrow \text{O}$	$3087 + 5275 = \square \rightarrow \text{I}$
$1103 + 1803 = \square \rightarrow \text{R}$	$1618 + 3271 = \square \rightarrow \text{E}$	$3962 + 2705 = \square \rightarrow \text{F}$
$2661 + 4021 = \square \rightarrow \text{W}$	$4429 + 2884 = \square \rightarrow \text{M}$	$2774 + 4752 = \square \rightarrow \text{V}$
$4748 + 2326 = \square \rightarrow \text{N}$	$3883 + 3033 = \square \rightarrow \text{L}$	$1295 + 1754 = \square \rightarrow \text{A}$
$2041 + 4459 = \square \rightarrow \text{H}$	$2787 + 4537 = \square \rightarrow \text{Y}$	$1699 + 3495 = \square \rightarrow \text{G}$

Scratch space:

Subtraction

A deep water trap stands before us. We must calculate how much water drained out of the main pool to find the secret lever.

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

7804 6677 8299 8650 5280 5854 5098 5770 7641 6677 8341 8341 8650 7804 6414 1258 4916 4587

$$10281 - 2477 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$7084 - 407 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$12001 - 3351 = \boxed{} \rightarrow \boxed{0}$$

$$9991 - 1650 = \boxed{} \rightarrow \mathbf{L}$$

$$10324 - 2025 = \boxed{} \rightarrow \boxed{\text{F}}$$

$2671 - 1413 = \boxed{} \rightarrow \boxed{}$

$$5715 - 1128 = \boxed{} \rightarrow \mathbf{H}$$

$9593 - 3823 = \boxed{} \rightarrow \boxed{\text{A}}$

$3888 - 1041 = \boxed{} \rightarrow \mathbf{S}$

$$5983 - 1067 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$9623 - 3209 = \boxed{} \rightarrow \boxed{\text{P}}$$

$6733 - 1635 = \boxed{} \rightarrow \boxed{\text{D}}$

$$4714 - 1132 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$11192 - 3551 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$8215 - 2361 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$9036 - 3756 = \boxed{} \rightarrow \boxed{\text{U}}$$

Scratch space:

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

Four hungry spider monkeys are waiting in the canopy. We need to divide our pile of sweet bananas evenly among them.

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:

$81 \div 9 = \boxed{}$

$96 \div 8 = \boxed{}$

$1 \div 1 = \boxed{}$

$11 \div 1 = \boxed{}$

$10 \div 1 = \boxed{}$

$12 \div 3 = \boxed{}$

$32 \div 4 = \boxed{}$

$3 \div 1 = \boxed{}$

$66 \div 11 = \boxed{}$

$10 \div 5 = \boxed{}$

$14 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain cracks the ancient stone lock, then shines a laser at the map.
2. The villain snips the sneaky trap wire, then zooms off on a mini dirtbike.
3. The villain cracks the ancient stone lock, then blasts a loud golden whistle.
4. The villain whispers to the guard jaguar, then zooms off on a mini dirtbike.
5. The villain cracks the ancient stone lock, then zips upward on a sticky grapple.
6. The villain whispers to the guard jaguar, then shines a laser at the map.
7. The villain snips the sneaky trap wire, then zips upward on a sticky grapple.
8. The villain whispers to the guard jaguar, then blasts a loud golden whistle.
9. The villain whispers to the guard jaguar, then zips upward on a sticky grapple.
10. The villain hops over the deep quicksand, then blasts a loud golden whistle.
11. The villain cracks the ancient stone lock, then zooms off on a mini dirtbike.
12. The villain swings across the river, then launches a tiny scout drone.

Answer Key

The Mystery of the Golden Pineapple

Culprit: Nate Navigator

decodes stone wall maps · throws a sticky grapple · left handed compass · yellow pith helmet · fear of tiny frogs

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE RAIDER DOES NOT BLOW A GOLDEN WHISTLE"

What is the value of the 4 in 1,419? = 400 (T) · What is the value of the 3 in 838? = 30 (O) · What is the value of the 1 in 139? = 100 (H) · What is the value of the 8 in 1,835? = 800 (B) · What is the value of the 1 in 3,319? = 10 (G) · What is the value of the 4 in 4,516? = 4000 (N) · What is the value of the 2 in 62,884? = 2000 (W) · What is the value of the 7 in 176? = 70 (S) · What is the value of the 9 in 903? = 900 (E) · What is the value of the 8 in 38,949? = 8000 (D) · What is the value of the 4 in 140? = 40 (R) · What is the value of the 3 in 63,557? = 3000 (I) · What is the value of the 2 in 286? = 200 (A) · What is the value of the 5 in 2,539? = 500 (L)

Clue 2 (Rounding): "THEY HELD THE COMPASS IN THE LEFT HAND"

Round 167 to the nearest ten = 170 (T) · Round 743 to the nearest hundred = 700 (P) · Round 3,259 to the nearest thousand = 3000 (H) · Round 2,900 to the nearest hundred = 2900 (A) · Round 2,326 to the nearest hundred = 2300 (L) · Round 367 to the nearest ten = 370 (F) · Round 4,798 to the nearest thousand = 5000 (I) · Round 27 to the nearest ten = 30 (C) · Round 114 to the nearest ten = 110 (N) · Round 923 to the nearest hundred = 900 (D) · Round 19 to the nearest ten = 20 (O) · Round 291 to the nearest ten = 290 (S) · Round 1,656 to the nearest hundred = 1700 (E) · Round 4,278 to the nearest hundred = 4300 (M) · Round 134 to the nearest ten = 130 (Y)

Clue 3 (Addition): "THE VILLAIN RAN AWAY FROM A TINY GREEN FROG"

2729 + 1990 = 4719 (T) · 3315 + 4865 = 8180 (O) · 3087 + 5275 = 8362 (I) · 1103 + 1803 = 2906 (R) · 1618 + 3271 = 4889 (E) · 3962 + 2705 = 6667 (F) · 2661 + 4021 = 6682 (W) · 4429 + 2884 = 7313 (M) · 2774 + 4752 = 7526 (V) · 4748 + 2326 = 7074 (N) · 3883 + 3033 = 6916 (L) · 1295 + 1754 = 3049 (A) · 2041 + 4459 = 6500 (H) · 2787 + 4537 = 7324 (Y) · 1699 + 3495 = 5194 (G)

Clue 4 (Subtraction): "WE FOUND A YELLOW PITH HELMET AT THE SITE"

10281 - 2477 = 7804 (W) · 7084 - 407 = 6677 (E) · 12001 - 3351 = 8650 (O) · 9991 - 1650 = 8341 (L) · 10324 - 2025 = 8299 (F) · 2671 - 1413 = 1258 (I) · 5715 - 1128 = 4587 (H) · 9593 - 3823 = 5770 (A) · 3888 - 1041 = 2847 (S) · 5983 - 1067 = 4916 (T) · 9623 - 3209 = 6414 (P) · 6733 - 1635 = 5098 (D) · 4714 - 1132 = 3582 (M) · 11192 - 3551 = 7641 (Y) · 8215 - 2361 = 5854 (N) · 9036 - 3756 = 5280 (U)

Clue 5 (Division facts (1-12)): surviving statement is box 5 → Nate Navigator

81 ÷ 9 = 9 · 96 ÷ 8 = 12 · 1 ÷ 1 = 1 · 11 ÷ 1 = 11 · 10 ÷ 1 = 10 · 12 ÷ 3 = 4 · 32 ÷ 4 = 8 · 3 ÷ 1 = 3 · 66 ÷ 11 = 6 · 10 ÷ 5 = 2 · 14 ÷ 2 = 7