



The Lost Totem of Whispering Vines

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

Detective: _____ Date: _____

Someone has swiped the Golden Monkey Totem from the camp! The Chief Archeologist needs your help to track down the Masked Raider before they sail away.

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 Masked Raider is _____

Possible suspects

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

NAME	ADVENTURING GEAR	ANIMAL COMPANION	FOOTPRINT TYPE	HEADWEAR	WEAKNESS
Huck Finn	smoke bomb	parrot buddy	wearing mud boots	red bandanna	banana peels
Sadie Kane	glider suit	robot dog	wearing sand sandals	explorer cap	loud whistles
Indiana Jones	pocket compass	robot dog	wearing mud boots	safari helmet	loud whistles
Marco Polo	climbing boots	giant beetle	wearing sand sandals	safari helmet	shiny coins
Jack Wilder	smoke bomb	giant beetle	wearing sand sandals	red bandanna	banana peels
Dora Marquez	grappling hook	robot dog	wearing mud boots	explorer cap	shiny coins
Nathan Drake	smoke bomb	helper monkey	wearing mud boots	explorer cap	banana peels
Tom Sawyer	pocket compass	baby raptor	wearing sand sandals	red bandanna	loud whistles
Nancy Drew	grappling hook	giant beetle	wearing sand sandals	red bandanna	loud whistles
Annie Oakley	grappling hook	baby raptor	wearing sand sandals	red bandanna	loud whistles
Jean Lafitte	grappling hook	baby raptor	wearing mud boots	safari helmet	banana peels
Carter Kane	smoke bomb	baby raptor	wearing sand sandals	explorer cap	banana peels
Robin Hood	pocket compass	parrot buddy	wearing sand sandals	safari helmet	shiny coins
Lara Croft	grappling hook	parrot buddy	wearing sand sandals	explorer cap	banana peels
Percy Jackson	glider suit	baby raptor	wearing sand sandals	safari helmet	banana peels
Diego Marquez	climbing boots	robot dog	wearing mud boots	explorer cap	banana peels
Hardy Boy	pocket compass	helper monkey	wearing sand sandals	explorer cap	banana peels
Hazel Levesque	pocket compass	giant beetle	wearing sand sandals	red bandanna	banana peels
Leo Valdez	climbing boots	robot dog	wearing sand sandals	safari helmet	loud whistles
Nellie Bly	glider suit	parrot buddy	wearing sand sandals	explorer cap	banana peels
Daniel Boone	grappling hook	giant beetle	wearing sand sandals	explorer cap	banana peels

CLUE 1 Rounding

The camp radar screen only shows rounded numbers for distances. Let us round the miles to find where the thief went.

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

T																T
8000	500	50	7000	20	900	60	50	7000	60	90	50	2000	6000	90	8000	

500	20	40	50	20	30	20	30	4000	7000	20	70	8000	90	7000		

Round 8,113 to the nearest thousand → **T**

Round 22 to the nearest ten → **A**

Round 3,994 to the nearest thousand → **Y**

Round 88 to the nearest ten → **O**

Round 31 to the nearest ten → **B**

Round 891 to the nearest hundred → **I**

Round 51 to the nearest ten → **E**

Round 61 to the nearest ten → **D**

Round 6,147 to the nearest thousand → **N**

Round 42 to the nearest ten → **V**

Round 69 to the nearest ten → **P**

Round 488 to the nearest hundred → **H**

Round 2,264 to the nearest thousand → **S**

Round 6,567 to the nearest thousand → **R**

Scratch space:

CLUE 2 Addition

The team counts the remaining supply crates. We must add the piles of gear to see what else is missing.

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

S															S				
752	279	616	762	886	493	494	494	578	857	334	621	616	578	752	407	760	334	760	

764	760	493	578	279	578	578	633	760	708	279	211	857	

$460 + 292 = \square \rightarrow$ S	$393 + 464 = \square \rightarrow$ P	$160 + 334 = \square \rightarrow$ O
$184 + 150 = \square \rightarrow$ R	$414 + 350 = \square \rightarrow$ L	$309 + 307 = \square \rightarrow$ N
$154 + 253 = \square \rightarrow$ W	$353 + 407 = \square \rightarrow$ E	$117 + 162 = \square \rightarrow$ A
$64 + 147 = \square \rightarrow$ M	$353 + 268 = \square \rightarrow$ I	$233 + 260 = \square \rightarrow$ F
$350 + 412 = \square \rightarrow$ D	$576 + 310 = \square \rightarrow$ Y	$483 + 225 = \square \rightarrow$ C
$299 + 334 = \square \rightarrow$ H	$345 + 233 = \square \rightarrow$ T	

Scratch space:

CLUE 3

Subtraction

Our water canteen is nearly empty. Subtract the spilled cups from the total to see how much water we have left.

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

T																	
220	145	710	769	873	844	302	175	175	710	345	117	296	873	117	763	710	
130	271	296	271	296	271	175	710	710	844	873							

$507 - 287 = \square \rightarrow \boxed{\text{T}}$

$539 - 268 = \square \rightarrow \boxed{\text{A}}$

$270 - 95 = \square \rightarrow \boxed{\text{P}}$

$968 - 199 = \square \rightarrow \boxed{\text{Y}}$

$1148 - 304 = \square \rightarrow \boxed{\text{L}}$

$420 - 124 = \square \rightarrow \boxed{\text{N}}$

$350 - 48 = \square \rightarrow \boxed{\text{I}}$

$1090 - 380 = \square \rightarrow \boxed{\text{E}}$

$433 - 316 = \square \rightarrow \boxed{\text{O}}$

$472 - 127 = \square \rightarrow \boxed{\text{D}}$

$899 - 136 = \square \rightarrow \boxed{\text{M}}$

$174 - 44 = \square \rightarrow \boxed{\text{B}}$

$1076 - 203 = \square \rightarrow \boxed{\text{S}}$

$348 - 203 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

We must cross a room of ancient stone tiles laid out in equal rows. Multiply the rows and columns to find the safe path.

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

A											A			A	
90	21	7	10	25	16	30	1	7	1	6	90	25	55	90	44
80	30	132	21	33	84	21	72	100	7	121	1	132	44	100	

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

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

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

$8 \times 2 = \square \rightarrow \boxed{\text{L}}$

$8 \times 10 = \square \rightarrow \boxed{\text{F}}$

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

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

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

$10 \times 3 = \square \rightarrow \boxed{\text{O}}$

$10 \times 10 = \square \rightarrow \boxed{\text{H}}$

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

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

$12 \times 7 = \square \rightarrow \boxed{\text{I}}$

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

$11 \times 4 = \square \rightarrow \boxed{\text{S}}$

$1 \times 10 = \square \rightarrow \boxed{\text{X}}$

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

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

Scratch space:

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

It is time to share our trail snacks. We must divide the crackers evenly among the search team to keep up our strength.

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:

$36 \div 3 = \boxed{}$

$54 \div 6 = \boxed{}$

$7 \div 7 = \boxed{}$

$12 \div 3 = \boxed{}$

$22 \div 2 = \boxed{}$

$33 \div 11 = \boxed{}$

$18 \div 3 = \boxed{}$

$10 \div 5 = \boxed{}$

$15 \div 3 = \boxed{}$

$21 \div 3 = \boxed{}$

$70 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain checks the heading on a pocket compass, then gives a high five to a helper monkey.
2. The villain vanishes in a puff of smoke from a smoke bomb, then gives a high five to a helper monkey.
3. The villain scales the temple wall with climbing boots, then shares a snack with a parrot buddy.
4. The villain checks the heading on a pocket compass, then feeds a leafy treat to a baby raptor.
5. The villain scales the temple wall with climbing boots, then gives a high five to a helper monkey.
6. The villain soars off the cliff in a glider suit, then rides away on a giant beetle.
7. The villain vanishes in a puff of smoke from a smoke bomb, then throws a tennis ball to a robot dog.
8. The villain soars off the cliff in a glider suit, then shares a snack with a parrot buddy.
9. The villain swings across the canyon with a grappling hook, then rides away on a giant beetle.
10. The villain soars off the cliff in a glider suit, then gives a high five to a helper monkey.
11. The villain vanishes in a puff of smoke from a smoke bomb, then rides away on a giant beetle.
12. The villain swings across the canyon with a grappling hook, then shares a snack with a parrot buddy.

Answer Key

The Lost Totem of Whispering Vines

Culprit: Nellie Bly

glider suit · parrot buddy · wearing sand sandals · explorer cap · banana peels

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE RAIDER DOES NOT HAVE A BABY RAPTOR"

Round 8,113 to the nearest thousand = 8000 (T) · Round 22 to the nearest ten = 20 (A) · Round 3,994 to the nearest thousand = 4000 (Y) · Round 88 to the nearest ten = 90 (O) · Round 31 to the nearest ten = 30 (B) · Round 891 to the nearest hundred = 900 (I) · Round 51 to the nearest ten = 50 (E) · Round 61 to the nearest ten = 60 (D) · Round 6,147 to the nearest thousand = 6000 (N) · Round 42 to the nearest ten = 40 (V) · Round 69 to the nearest ten = 70 (P) · Round 488 to the nearest hundred = 500 (H) · Round 2,264 to the nearest thousand = 2000 (S) · Round 6,567 to the nearest thousand = 7000 (R)

Clue 2 (Addition): "SANDY FOOTPRINTS WERE LEFT AT THE CAMP"

$460 + 292 = 752$ (S) · $393 + 464 = 857$ (P) · $160 + 334 = 494$ (O) · $184 + 150 = 334$ (R) · $414 + 350 = 764$ (L) · $309 + 307 = 616$ (N) · $154 + 253 = 407$ (W) · $353 + 407 = 760$ (E) · $117 + 162 = 279$ (A) · $64 + 147 = 211$ (M) · $353 + 268 = 621$ (I) · $233 + 260 = 493$ (F) · $350 + 412 = 762$ (D) · $576 + 310 = 886$ (Y) · $483 + 225 = 708$ (C) · $299 + 334 = 633$ (H) · $345 + 233 = 578$ (T)

Clue 3 (Subtraction): "THEY SLIPPED ON SOME BANANA PEELS"

$507 - 287 = 220$ (T) · $539 - 268 = 271$ (A) · $270 - 95 = 175$ (P) · $968 - 199 = 769$ (Y) · $1148 - 304 = 844$ (L) · $420 - 124 = 296$ (N) · $350 - 48 = 302$ (I) · $1090 - 380 = 710$ (E) · $433 - 316 = 117$ (O) · $472 - 127 = 345$ (D) · $899 - 136 = 763$ (M) · $174 - 44 = 130$ (B) · $1076 - 203 = 873$ (S) · $348 - 203 = 145$ (H)

Clue 4 (Multiplication facts (1-12)): "AN EXPLORER CAP WAS FOUND IN THE BRUSH"

$9 \times 10 = 90$ (A) · $12 \times 6 = 72$ (T) · $1 \times 7 = 7$ (E) · $8 \times 2 = 16$ (L) · $8 \times 10 = 80$ (F) · $3 \times 11 = 33$ (D) · $1 \times 6 = 6$ (C) · $1 \times 1 = 1$ (R) · $10 \times 3 = 30$ (O) · $10 \times 10 = 100$ (H) · $11 \times 11 = 121$ (B) · $5 \times 5 = 25$ (P) · $12 \times 7 = 84$ (I) · $7 \times 3 = 21$ (N) · $11 \times 4 = 44$ (S) · $1 \times 10 = 10$ (X) · $11 \times 5 = 55$ (W) · $11 \times 12 = 132$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Nellie Bly

$36 \div 3 = 12$ · $54 \div 6 = 9$ · $7 \div 7 = 1$ · $12 \div 3 = 4$ · $22 \div 2 = 11$ · $33 \div 11 = 3$ · $18 \div 3 = 6$ · $10 \div 5 = 2$ · $15 \div 3 = 5$ · $21 \div 3 = 7$ · $70 \div 7 = 10$