



The Mystery of the Sunken Temple

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

Detective: _____ Date: _____

A sneaky temple raider swiped the Golden Monkey Idol right off its stone pedestal! Use your detective skills and solve the math clues to figure out who snuck into the ruins.

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 Temple Raider is _____

Possible suspects

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

NAME	ADVENTURE SKILL	MYSTERY ITEM	DOMINANT HAND	HEADGEAR	SECRET WEAKNESS
Victor Vine	Vine Gliding	Grappling Hook	Right-handed	Leather Helmet	Flashlight Beam
Rory Ranger	Boulder Rolling	Ancient Journal	Right-handed	Leather Helmet	Flashlight Beam
Otis Outpost	Vine Gliding	Smoke Bombs	Right-handed	Red Cap	Sneeze Powder
Clara Compass	Boulder Rolling	Ancient Journal	Left-handed	Leather Helmet	Loud Whistle
Leo Lasso	Map Reading	Iron Shield	Right-handed	Leather Helmet	Flashlight Beam
Ivy Trekker	Torch Lighting	Ancient Journal	Right-handed	Red Cap	Sneeze Powder
Zack Zephyr	Torch Lighting	Brass Compass	Right-handed	Leather Helmet	Flashlight Beam
Hugo Hunter	Map Reading	Brass Compass	Right-handed	Leather Helmet	Sneeze Powder
Yara Yonder	Boulder Rolling	Iron Shield	Right-handed	Leather Helmet	Flashlight Beam
Felix Fern	Vine Gliding	Smoke Bombs	Left-handed	Straw Hat	Sneeze Powder
Sienna Scout	Lasso Swinging	Smoke Bombs	Left-handed	Red Cap	Loud Whistle
Penny Pathfinder	Vine Gliding	Smoke Bombs	Right-handed	Straw Hat	Sneeze Powder
Maya Mapmaker	Map Reading	Ancient Journal	Right-handed	Leather Helmet	Sneeze Powder
Ruby Runner	Lasso Swinging	Iron Shield	Left-handed	Red Cap	Loud Whistle
Willa Wild	Map Reading	Ancient Journal	Left-handed	Leather Helmet	Flashlight Beam
Sammy Swift	Boulder Rolling	Ancient Journal	Right-handed	Red Cap	Sneeze Powder
Tess Trail	Vine Gliding	Iron Shield	Right-handed	Red Cap	Flashlight Beam
Xander Expedition	Torch Lighting	Iron Shield	Left-handed	Leather Helmet	Loud Whistle
Toby Torch	Map Reading	Smoke Bombs	Right-handed	Red Cap	Flashlight Beam
Gemma Globe	Lasso Swinging	Iron Shield	Right-handed	Straw Hat	Sneeze Powder
Fiona Finder	Boulder Rolling	Iron Shield	Right-handed	Straw Hat	Loud Whistle

CLUE 1
Addition

The team tallied all the trail supplies gathered from the camp to track down the raider.

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

T																T
6428	7413	6385	5505	2941	3584	3584	8882	2941	5971	8363	6082	6385	4429	5971	6082	6428
6799	4429	6385	8882	8250	8646	8882	8874	8874	3584	2941	5971	8250	7413	6082	6082	5035

$2417 + 4011 = \square \rightarrow \mathbf{T}$

$4664 + 3982 = \square \rightarrow \mathbf{R}$

$2348 + 2687 = \square \rightarrow \mathbf{K}$

$2590 + 3381 = \square \rightarrow \mathbf{N}$

$1821 + 3684 = \square \rightarrow \mathbf{V}$

$3417 + 2665 = \square \rightarrow \mathbf{O}$

$3710 + 4653 = \square \rightarrow \mathbf{D}$

$2080 + 1504 = \square \rightarrow \mathbf{L}$

$4271 + 2114 = \square \rightarrow \mathbf{E}$

$5037 + 3845 = \square \rightarrow \mathbf{A}$

$2713 + 1716 = \square \rightarrow \mathbf{S}$

$3326 + 3473 = \square \rightarrow \mathbf{U}$

$1205 + 1736 = \square \rightarrow \mathbf{I}$

$3206 + 5668 = \square \rightarrow \mathbf{P}$

$4035 + 4215 = \square \rightarrow \mathbf{G}$

$3399 + 4014 = \square \rightarrow \mathbf{H}$

Scratch space:

CLUE 2 Rounding

The digital sonar readout only showed rounded distances to the hidden temple chambers.

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

W											W						
2300	110	1300	370	2900	90	90	2900	90	90	430	2300	430	900	110	9000	70	1300

70	430	370	200	2900	200	2900	50	1100	4300	2000	900	2900	900	

Round 2,290 to the nearest hundred → **W**

Round 89 to the nearest ten → **S**

Round 8,972 to the nearest thousand → **G**

Round 1,915 to the nearest thousand → **O**

Round 1,128 to the nearest hundred → **P**

Round 947 to the nearest hundred → **R**

Round 368 to the nearest ten → **N**

Round 1,260 to the nearest hundred → **T**

Round 54 to the nearest ten → **X**

Round 240 to the nearest hundred → **D**

Round 70 to the nearest ten → **H**

Round 2,936 to the nearest hundred → **E**

Round 4,255 to the nearest hundred → **L**

Round 114 to the nearest ten → **I**

Round 427 to the nearest ten → **A**

Scratch space:

CLUE 3

Subtraction

The scout calculated how many supplies remained after the raider raided the pack.

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

A			A											A	
1938	1372	5304	1938	8894	5599	5304	8570	6176	5599	3030	7842	4925	1938	2306	

													A			
7842	5304	8570	3063	5117	4925	5117	3030	5599	4925	3981	8570	5304	5304	1938	8570	3063

$5245 - 3307 = \square \rightarrow \boxed{\text{A}}$

$8647 - 3722 = \square \rightarrow \boxed{\text{E}}$

$6093 - 4721 = \square \rightarrow \boxed{\text{F}}$

$6870 - 1566 = \square \rightarrow \boxed{\text{L}}$

$7895 - 4832 = \square \rightarrow \boxed{\text{N}}$

$10888 - 4712 = \square \rightarrow \boxed{\text{G}}$

$8718 - 876 = \square \rightarrow \boxed{\text{B}}$

$10580 - 2010 = \square \rightarrow \boxed{\text{I}}$

$5511 - 2481 = \square \rightarrow \boxed{\text{T}}$

$4371 - 2065 = \square \rightarrow \boxed{\text{M}}$

$10108 - 4991 = \square \rightarrow \boxed{\text{D}}$

$9563 - 669 = \square \rightarrow \boxed{\text{S}}$

$6135 - 536 = \square \rightarrow \boxed{\text{H}}$

$4485 - 504 = \square \rightarrow \boxed{\text{V}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The guide counted the total gems by checking equal rows carved into the altar.

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

A			A														
84	25	90	84	30	120	90	8	120	90	25	20	90	30	27	84	80	
				A													
25	90	50	30	84	30	30	120	90	80	11	90	36	90				

$7 \times 12 = \square \rightarrow \text{A}$

$11 \times 1 = \square \rightarrow \text{C}$

$5 \times 10 = \square \rightarrow \text{F}$

$1 \times 8 = \square \rightarrow \text{R}$

$9 \times 10 = \square \rightarrow \text{E}$

$3 \times 9 = \square \rightarrow \text{W}$

$5 \times 5 = \square \rightarrow \text{L}$

$10 \times 2 = \square \rightarrow \text{M}$

$3 \times 12 = \square \rightarrow \text{N}$

$12 \times 10 = \square \rightarrow \text{H}$

$3 \times 10 = \square \rightarrow \text{T}$

$10 \times 8 = \square \rightarrow \text{S}$

Scratch space:

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

The crew split the rescued artifacts equally into storage crates for safety.

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:

$40 \div 4 = \boxed{}$

$108 \div 12 = \boxed{}$

$96 \div 12 = \boxed{}$

$6 \div 1 = \boxed{}$

$20 \div 10 = \boxed{}$

$35 \div 7 = \boxed{}$

$11 \div 11 = \boxed{}$

$30 \div 10 = \boxed{}$

$28 \div 4 = \boxed{}$

$28 \div 7 = \boxed{}$

$11 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swung across the pit, then threw a dark smoke bomb.
2. The villain glided down the long vine, then checked the brass compass.
3. The villain swung across the pit, then copied notes in a journal.
4. The villain rolled the giant boulder, then shot a heavy grappling hook.
5. The villain lit the dark passage, then blocked traps with an iron shield.
6. The villain swung across the pit, then shot a heavy grappling hook.
7. The villain rolled the giant boulder, then checked the brass compass.
8. The villain rolled the giant boulder, then blocked traps with an iron shield.
9. The villain rolled the giant boulder, then copied notes in a journal.
10. The villain lit the dark passage, then checked the brass compass.
11. The villain swung across the pit, then checked the brass compass.
12. The villain read the ancient map, then blocked traps with an iron shield.

Answer Key

The Mystery of the Sunken Temple

Culprit: Leo Lasso

Map Reading · Iron Shield · Right-handed · Leather Helmet · Flashlight Beam

Trail: Start 21 → Clue 1 20 → Clue 2 14 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A GRAPPLING HOOK"

$2417 + 4011 = 6428$ (T) · $4664 + 3982 = 8646$ (R) · $2348 + 2687 = 5035$ (K) · $2590 + 3381 = 5971$ (N) · $1821 + 3684 = 5505$ (V) · $3417 + 2665 = 6082$ (O) · $3710 + 4653 = 8363$ (D) · $2080 + 1504 = 3584$ (L) · $4271 + 2114 = 6385$ (E) · $5037 + 3845 = 8882$ (A) · $2713 + 1716 = 4429$ (S) · $3326 + 3473 = 6799$ (U) · $1205 + 1736 = 2941$ (I) · $3206 + 5668 = 8874$ (P) · $4035 + 4215 = 8250$ (G) · $3399 + 4014 = 7413$ (H)

Clue 2 (Rounding): "WITNESSES SAW A RIGHT HANDED EXPLORER"

Round 2,290 to the nearest hundred = 2300 (W) · Round 89 to the nearest ten = 90 (S) · Round 8,972 to the nearest thousand = 9000 (G) · Round 1,915 to the nearest thousand = 2000 (O) · Round 1,128 to the nearest hundred = 1100 (P) · Round 947 to the nearest hundred = 900 (R) · Round 368 to the nearest ten = 370 (N) · Round 1,260 to the nearest hundred = 1300 (T) · Round 54 to the nearest ten = 50 (X) · Round 240 to the nearest hundred = 200 (D) · Round 70 to the nearest ten = 70 (H) · Round 2,936 to the nearest hundred = 2900 (E) · Round 4,255 to the nearest hundred = 4300 (L) · Round 114 to the nearest ten = 110 (I) · Round 427 to the nearest ten = 430 (A)

Clue 3 (Subtraction): "A FLASHLIGHT BEAM BLINDED THE VILLAIN"

$5245 - 3307 = 1938$ (A) · $8647 - 3722 = 4925$ (E) · $6093 - 4721 = 1372$ (F) · $6870 - 1566 = 5304$ (L) · $7895 - 4832 = 3063$ (N) · $10888 - 4712 = 6176$ (G) · $8718 - 876 = 7842$ (B) · $10580 - 2010 = 8570$ (I) · $5511 - 2481 = 3030$ (T) · $4371 - 2065 = 2306$ (M) · $10108 - 4991 = 5117$ (D) · $9563 - 669 = 8894$ (S) · $6135 - 536 = 5599$ (H) · $4485 - 504 = 3981$ (V)

Clue 4 (Multiplication facts (1-12)): "A LEATHER HELMET WAS LEFT AT THE SCENE"

$7 \times 12 = 84$ (A) · $11 \times 1 = 11$ (C) · $5 \times 10 = 50$ (F) · $1 \times 8 = 8$ (R) · $9 \times 10 = 90$ (E) · $3 \times 9 = 27$ (W) · $5 \times 5 = 25$ (L) · $10 \times 2 = 20$ (M) · $3 \times 12 = 36$ (N) · $12 \times 10 = 120$ (H) · $3 \times 10 = 30$ (T) · $10 \times 8 = 80$ (S)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Leo Lasso

$40 \div 4 = 10$ · $108 \div 12 = 9$ · $96 \div 12 = 8$ · $6 \div 1 = 6$ · $20 \div 10 = 2$ · $35 \div 7 = 5$ · $11 \div 11 = 1$ · $30 \div 10 = 3$ · $28 \div 4 = 7$ · $28 \div 7 = 4$ · $11 \div 1 = 11$