The Lost Idol Mystery

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

Detective: _____ **Date:** _____

Someone snuck into the camp tent and took the golden idol! Solve the math clues to identify the sneaky Shadow Scout before they escape the jungle.

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 Shadow Scout is _____

Possible suspects

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

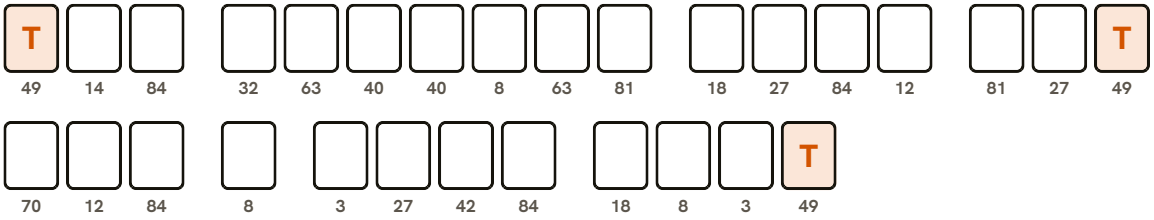
NAME	MAIN TOOL	EXTRA GEAR	HANDEDNESS	HAIRSTYLE	WEAKNESS
Max Venture	Torch Beam	Flash Beacon	Right Handed	Spiky Crown	Bright Light
Ella Pioneer	Smoke Pellets	Flash Beacon	Right Handed	Long Braids	Wet Mud
Mia Valley	Compass Lock	Signal Whistle	Left Handed	Shaved Sides	Wet Mud
Owen Scout	Compass Lock	Sonic Horn	Right Handed	Long Braids	Wet Mud
Zoe Pathfinder	Grappling Hook	Rope Dart	Right Handed	Spiky Crown	Bright Light
Jack Ranger	Grappling Hook	Signal Whistle	Right Handed	Shaved Sides	Loud Whistles
Chloe Canyon	Grappling Hook	Signal Whistle	Right Handed	Spiky Crown	Wet Mud
Indiana Drake	Grappling Hook	Flash Beacon	Right Handed	Spiky Crown	Bright Light
Kai Explorer	Smoke Pellets	Signal Whistle	Left Handed	Long Braids	Wet Mud
Diego Dash	Smoke Pellets	Signal Whistle	Right Handed	Long Braids	Loud Whistles
Noah Cliff	Glider Wings	Rope Dart	Left Handed	Shaved Sides	Wet Mud
Ethan River	Glider Wings	Flash Beacon	Left Handed	Shaved Sides	Bright Light
Alex River	Grappling Hook	Signal Whistle	Right Handed	Long Braids	Wet Mud
Ruby Compass	Grappling Hook	Sonic Horn	Left Handed	Long Braids	Bright Light
Ava Summit	Smoke Pellets	Sonic Horn	Right Handed	Shaved Sides	Loud Whistles
Nina Ridge	Compass Lock	Sonic Horn	Right Handed	Long Braids	Bright Light
Maya Trail	Compass Lock	Signal Whistle	Right Handed	Long Braids	Wet Mud
Harper Woods	Grappling Hook	Rope Dart	Right Handed	Long Braids	Wet Mud
Lily Jungle	Smoke Pellets	Rope Dart	Right Handed	Spiky Crown	Loud Whistles
Sam Tracker	Compass Lock	Map Scanner	Left Handed	Spiky Crown	Wet Mud
Lucas Boulder	Smoke Pellets	Flash Beacon	Right Handed	Shaved Sides	Wet Mud

make your own at mathcrackers.com

CLUE 1 Multiplication facts (1-12)

> We found crate stacks near the temple gate. Each row holds the same number of supplies.

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



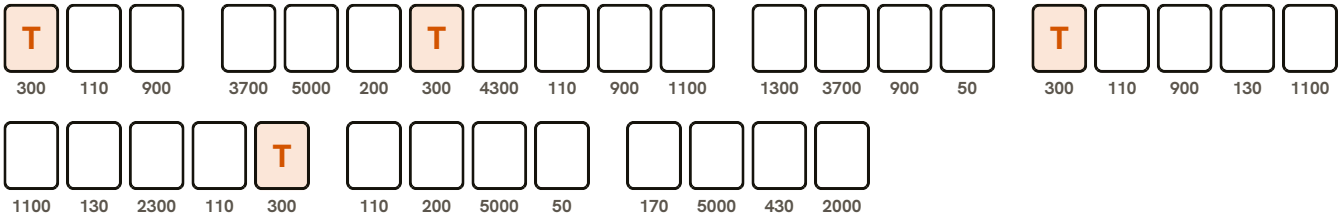
7 × 7 = ☐ → T	8 × 1 = ☐ → A	9 × 9 = ☐ → N	9 × 7 = ☐ → I
1 × 3 = ☐ → R	9 × 3 = ☐ → O	2 × 7 = ☐ → H	2 × 6 = ☐ → S
4 × 10 = ☐ → L	7 × 10 = ☐ → U	7 × 12 = ☐ → E	
7 × 6 = ☐ → P	4 × 8 = ☐ → V	9 × 2 = ☐ → D	

Scratch space:

CLUE 2 Rounding

The camp sensor display shows a rounded estimate of the runner's distance.

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



Round 323 to the nearest hundred ☐ → T

Round 4,280 to the nearest hundred ☐ → C

Round 874 to the nearest hundred ☐ → E

Round 170 to the nearest ten ☐ → O

Round 432 to the nearest ten ☐ → L

Round 2,251 to the nearest hundred ☐ → G

Round 209 to the nearest hundred ☐ → A

Round 47 to the nearest ten ☐ → D

Round 106 to the nearest ten ☐ → H

Round 4,782 to the nearest thousand ☐ → N

Round 1,698 to the nearest thousand ☐ → Y

Round 132 to the nearest ten ☐ → I

Round 1,142 to the nearest hundred ☐ → R

Round 3,702 to the nearest hundred ☐ → S

Round 1,274 to the nearest hundred ☐ → U

Scratch space:

CLUE 3 Addition

> We tallied up all the trail markers found along both river banks.

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



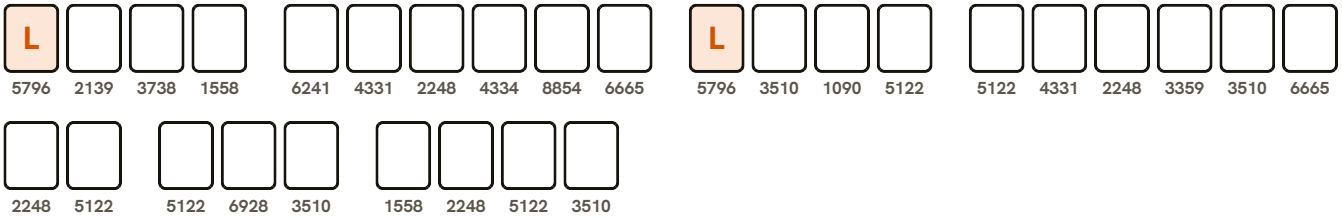
2698 + 4700 = ☐ → T	3102 + 4630 = ☐ → H	1289 + 2082 = ☐ → D
4605 + 3722 = ☐ → A	2595 + 3312 = ☐ → M	1951 + 1004 = ☐ → O
2305 + 4253 = ☐ → I	5824 + 3342 = ☐ → N	3422 + 4853 = ☐ → U
938 + 1195 = ☐ → E	5714 + 2568 = ☐ → L	2454 + 5669 = ☐ → P
1659 + 3625 = ☐ → W	2624 + 1423 = ☐ → K	2667 + 1227 = ☐ → S

Scratch space:

CLUE 4 Subtraction

> We compared our starting gear count with what remains in the storage chest.

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



10786 - 4990 = ☐ → L	7682 - 4323 = ☐ → C	5256 - 134 = ☐ → T
2848 - 1758 = ☐ → F	5212 - 1702 = ☐ → E	7995 - 3664 = ☐ → R
6608 - 4469 = ☐ → O	10921 - 3993 = ☐ → H	7318 - 1077 = ☐ → B
5454 - 1716 = ☐ → N	7647 - 3313 = ☐ → I	2790 - 542 = ☐ → A
8324 - 1659 = ☐ → S	2847 - 1289 = ☐ → G	12759 - 3905 = ☐ → D

Scratch space:

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

> We split the recovered map pieces evenly among our four search teams.

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:

10 ÷ 2 = ☐	110 ÷ 10 = ☐	108 ÷ 9 = ☐	8 ÷ 4 = ☐	99 ÷ 11 = ☐
56 ÷ 8 = ☐	10 ÷ 10 = ☐	40 ÷ 4 = ☐	8 ÷ 2 = ☐	54 ÷ 9 = ☐
40 ÷ 5 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain locked the compass, then lit a flash beacon.
2. The villain locked the compass, then scanned the old map.
3. The villain locked the compass, then blew a sonic horn.
4. The villain threw a smoke pellet, then blew a sonic horn.
5. The villain threw a smoke pellet, then lit a flash beacon.
6. The villain locked the compass, then threw a rope dart.
7. The villain threw a smoke pellet, then threw a rope dart.
8. The villain slung the grappling hook, then blew a sonic horn.
9. The villain soared on glider wings, then lit a flash beacon.
10. The villain shined a torch beam, then threw a rope dart.
11. The villain locked the compass, then blew a signal whistle.
12. The villain slung the grappling hook, then blew a signal whistle.

TEACHER / PARENT

Answer Key

The Lost Idol Mystery

Culprit: Owen Scout

Compass Lock · Sonic Horn · Right Handed · Long Braids · Wet Mud

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE A ROPE DART"

7 × 7 = 49 (T) · 8 × 1 = 8 (A) · 9 × 9 = 81 (N) · 9 × 7 = 63 (I) · 1 × 3 = 3 (R) · 9 × 3 = 27 (O) · 2 × 7 = 14 (H) · 2 × 6 = 12 (S) · 4 × 10 = 40 (L) · 7 × 10 = 70 (U) · 7 × 12 = 84 (E) · 7 × 6 = 42 (P) · 4 × 8 = 32 (V) · 9 × 2 = 18 (D)

Clue 2 (Rounding): "THE SNATCHER USED THEIR RIGHT HAND ONLY"

Round 323 to the nearest hundred = 300 (T) · Round 4,280 to the nearest hundred = 4300 (C) · Round 874 to the nearest hundred = 900 (E) · Round 170 to the nearest ten = 170 (O) · Round 432 to the nearest ten = 430 (L) · Round 2,251 to the nearest hundred = 2300 (G) · Round 209 to the nearest hundred = 200 (A) · Round 47 to the nearest ten = 50 (D) · Round 106 to the nearest ten = 110 (H) · Round 4,782 to the nearest thousand = 5000 (N) · Round 1,698 to the nearest thousand = 2000 (Y) · Round 132 to the nearest ten = 130 (I) · Round 1,142 to the nearest hundred = 1100 (R) · Round 3,702 to the nearest hundred = 3700 (S) · Round 1,274 to the nearest hundred = 1300 (U)

Clue 3 (Addition): "THE SNEAK SLIPPED ON WET MUD"

2698 + 4700 = 7398 (T) · 3102 + 4630 = 7732 (H) · 1289 + 2082 = 3371 (D) · 4605 + 3722 = 8327 (A) · 2595 + 3312 = 5907 (M) · 1951 + 1004 = 2955 (O) · 2305 + 4253 = 6558 (I) · 5824 + 3342 = 9166 (N) · 3422 + 4853 = 8275 (U) · 938 + 1195 = 2133 (E) · 5714 + 2568 = 8282 (L) · 2454 + 5669 = 8123 (P) · 1659 + 3625 = 5284 (W) · 2624 + 1423 = 4047 (K) · 2667 + 1227 = 3894 (S)

Clue 4 (Subtraction): "LONG BRAIDS LEFT TRACES AT THE GATE"

10786 - 4990 = 5796 (L) · 7682 - 4323 = 3359 (C) · 5256 - 134 = 5122 (T) · 2848 - 1758 = 1090 (F) · 5212 - 1702 = 3510 (E) · 7995 - 3664 = 4331 (R) · 6608 - 4469 = 2139 (O) · 10921 - 3993 = 6928 (H) · 7318 - 1077 = 6241 (B) · 5454 - 1716 = 3738 (N) · 7647 - 3313 = 4334 (I) · 2790 - 542 = 2248 (A) · 8324 - 1659 = 6665 (S) · 2847 - 1289 = 1558 (G) · 12759 - 3905 = 8854 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Owen Scout

10 ÷ 2 = 5 · 110 ÷ 10 = 11 · 108 ÷ 9 = 12 · 8 ÷ 4 = 2 · 99 ÷ 11 = 9 · 56 ÷ 8 = 7 · 10 ÷ 10 = 1 · 40 ÷ 4 = 10 · 8 ÷ 2 = 4 · 54 ÷ 9 = 6 · 40 ÷ 5 = 8