



The Mystery of Golden Skull Island

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

Detective: _____ **Date:** _____

Someone snuck into camp on Golden Skull Island and swiped the ancient sun idol! Use your explorer skills and solve the clues to catch the villain.

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 sneaky bandit is _____

Possible suspects

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

NAME	TRAVERSAL GEAR	EXPLORER TOOL	DOMINANT HAND	HAIRSTYLE	SECRET WEAKNESS
Luke Pathfinder	rope launcher	flash lantern	right handed	blonde spiked	loud cymbals
Maya Croft	smoke bombs	sonic whistle	left handed	black slicked	peppermint spray
Ruby Flint	grappling hook	pocket drone	left handed	black slicked	peppermint spray
Sam Horizon	glider wings	flash lantern	right handed	black slicked	loud cymbals
Liam Cross	stealth boots	night vision	right handed	blonde spiked	bright mirror
Nora Canyon	rope launcher	night vision	right handed	blonde spiked	loud cymbals
Nina Breeze	stealth boots	flash lantern	left handed	black slicked	loud cymbals
Zoe Wilder	glider wings	map compass	left handed	blonde spiked	peppermint spray
Mia Frost	glider wings	sonic whistle	right handed	black slicked	loud cymbals
Leo Vance	smoke bombs	map compass	right handed	brown braided	loud cymbals
Ella Horizon	glider wings	sonic whistle	left handed	black slicked	bright mirror
Noah Finch	rope launcher	pocket drone	left handed	blonde spiked	loud cymbals
Tara Ridge	rope launcher	map compass	left handed	blonde spiked	loud cymbals
Jack Compass	stealth boots	pocket drone	right handed	brown braided	peppermint spray
Chloe Stone	stealth boots	map compass	right handed	black slicked	bright mirror
Cole Trekker	rope launcher	sonic whistle	left handed	brown braided	peppermint spray
Ivy Sterling	rope launcher	night vision	right handed	black slicked	loud cymbals
Ava Ranger	glider wings	map compass	right handed	black slicked	loud cymbals
Zack Valleys	rope launcher	map compass	right handed	black slicked	bright mirror
Alex Rivers	grappling hook	map compass	right handed	brown braided	bright mirror
Eli Drake	grappling hook	pocket drone	right handed	black slicked	loud cymbals

Rounding

The digital scanner on the temple gate only shows rounded numbers.

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

Round 1,526 to the nearest thousand → **T**

Round 859 to the nearest hundred $\rightarrow$ **A**

Round 92 to the nearest ten $\rightarrow$ **D**

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

Round 2,859 to the nearest hundred → **S**

Round 34 to the nearest ten → **K**

Round 4,274 to the nearest hundred → **Y**

Round 1,294 to the nearest hundred $\rightarrow$

Round 232 to the nearest ten $\rightarrow$ **N**

Round 17 to the nearest ten → **U**

Round 3,666 to the nearest hundred $\rightarrow$

Round 3,478 to the nearest thousand $\rightarrow$ **H**

Round 112 to the nearest ten $\rightarrow$ **W**

Round 8,900 to the nearest thousand → **E**

Round 48 to the nearest ten → **B**

Round 1,113 to the nearest hundred → **L**

Scratch space:

CLUE 2 Addition

You gather up the dropped jungle trail tokens to count the total.

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

T								T									T	
5677	7220	2891	2089	8679	9052	6728	6953	5677	4373	9082	2891	6728	8679	2586	6953	5275	7220	5677
											T							
7220	8679	9052	6728	5275	2586	6953	5838	4491	9052	5677	7220	2891	6284	4491	7084	9008		

$2189 + 3488 = \square \rightarrow \text{**T**}$

$1837 + 1054 = \square \rightarrow \text{**E**}$

$2582 + 3702 = \square \rightarrow \text{**L**}$

$2544 + 1947 = \square \rightarrow \text{**O**}$

$4366 + 2854 = \square \rightarrow \text{**H**}$

$2196 + 3642 = \square \rightarrow \text{**P**}$

$3519 + 3434 = \square \rightarrow \text{**I**}$

$1049 + 1040 = \square \rightarrow \text{**B**}$

$1721 + 865 = \square \rightarrow \text{**R**}$

$3866 + 5186 = \square \rightarrow \text{**N**}$

$2829 + 1544 = \square \rightarrow \text{**U**}$

$4451 + 4228 = \square \rightarrow \text{**A**}$

$4123 + 4959 = \square \rightarrow \text{**S**}$

$2501 + 4227 = \square \rightarrow \text{**D**}$

$4034 + 3050 = \square \rightarrow \text{**C**}$

$4648 + 4360 = \square \rightarrow \text{**K**}$

$2130 + 3145 = \square \rightarrow \text{**G**}$

Scratch space:

CLUE 3

Subtraction

You compare the remaining supplies to find out what was taken.

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

L									L								
1187	2962	2325	1495	2089	4064	1781	2224	5730	1187	3491	1781	5730	1495	2470	6407	3346	2470
2224	5730	8820	1495	6100	6407	2089	2962	7290	2470	3521	6407	3346	2470	6100	3521	2470	5730

$2729 - 1542 = \square \rightarrow \boxed{\text{L}}$

$6985 - 2921 = \square \rightarrow \boxed{\text{Y}}$

$13170 - 4350 = \square \rightarrow \boxed{\text{N}}$

$8271 - 2541 = \square \rightarrow \boxed{\text{A}}$

$5223 - 2753 = \square \rightarrow \boxed{\text{E}}$

$3019 - 1524 = \square \rightarrow \boxed{\text{D}}$

$5509 - 2163 = \square \rightarrow \boxed{\text{H}}$

$3601 - 1512 = \square \rightarrow \boxed{\text{C}}$

$7949 - 1542 = \square \rightarrow \boxed{\text{T}}$

$5923 - 3699 = \square \rightarrow \boxed{\text{B}}$

$9289 - 3189 = \square \rightarrow \boxed{\text{I}}$

$6573 - 4792 = \square \rightarrow \boxed{\text{M}}$

$7123 - 3602 = \square \rightarrow \boxed{\text{R}}$

$6282 - 3957 = \square \rightarrow \boxed{\text{U}}$

$7592 - 4630 = \square \rightarrow \boxed{\text{O}}$

$4057 - 566 = \square \rightarrow \boxed{\text{S}}$

$8670 - 1380 = \square \rightarrow \boxed{\text{V}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

You examine identical rows of ancient stone tiles along the path.

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

B																			
22	42	48	7	25	70	42	8	7	25	36	14	35	48	8	28	32	48	70	
45	20	88	90	14	90	36	48	28	18	35	36	18	36	90	18				

$11 \times 2 = \square \rightarrow \text{B}$

$7 \times 5 = \square \rightarrow \text{H}$

$4 \times 2 = \square \rightarrow \text{I}$

$2 \times 7 = \square \rightarrow \text{D}$

$5 \times 9 = \square \rightarrow \text{F}$

$8 \times 4 = \square \rightarrow \text{W}$

$4 \times 7 = \square \rightarrow \text{R}$

$10 \times 7 = \square \rightarrow \text{S}$

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

$4 \times 12 = \square \rightarrow \text{A}$

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

$3 \times 6 = \square \rightarrow \text{T}$

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

$7 \times 1 = \square \rightarrow \text{C}$

$6 \times 7 = \square \rightarrow \text{L}$

$5 \times 4 = \square \rightarrow \text{O}$

$11 \times 8 = \square \rightarrow \text{U}$

Scratch space:

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

You split the recovered gold coins equally among the expedition tents.

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:

$10 \div 1 = \boxed{}$

$12 \div 3 = \boxed{}$

$7 \div 7 = \boxed{}$

$9 \div 3 = \boxed{}$

$7 \div 1 = \boxed{}$

$15 \div 3 = \boxed{}$

$60 \div 5 = \boxed{}$

$48 \div 8 = \boxed{}$

$4 \div 2 = \boxed{}$

$99 \div 11 = \boxed{}$

$55 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain soared over the canopy, then checked the map compass.
2. The villain scaled the stone cliff, then flew a pocket drone over the camp.
3. The villain snuck past the guard parrots, then scouted ahead with night vision.
4. The villain soared over the canopy, then lit up the ruin with a flash lantern.
5. The villain swung across the ravine, then lit up the ruin with a flash lantern.
6. The villain swung across the ravine, then blew a sonic whistle.
7. The villain snuck past the guard parrots, then lit up the ruin with a flash lantern.
8. The villain swung across the ravine, then flew a pocket drone over the camp.
9. The villain snuck past the guard parrots, then checked the map compass.
10. The villain scaled the stone cliff, then scouted ahead with night vision.
11. The villain soared over the canopy, then flew a pocket drone over the camp.
12. The villain vanished behind a smoke cloud, then blew a sonic whistle.

Answer Key

The Mystery of Golden Skull Island

Culprit: Eli Drake

grappling hook · pocket drone · right handed · black slicked · loud cymbals

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

Clue 1 (Rounding): "THE SNEAKY BANDIT DOES NOT USE A SONIC WHISTLE"

Round 1,526 to the nearest thousand = 2000 (T) · Round 859 to the nearest hundred = 900 (A) · Round 92 to the nearest ten = 90 (D) · Round 434 to the nearest ten = 430 (C) · Round 2,859 to the nearest hundred = 2900 (S) · Round 34 to the nearest ten = 30 (K) · Round 4,274 to the nearest hundred = 4300 (Y) · Round 1,294 to the nearest hundred = 1300 (O) · Round 232 to the nearest ten = 230 (N) · Round 17 to the nearest ten = 20 (U) · Round 3,666 to the nearest hundred = 3700 (I) · Round 3,478 to the nearest thousand = 3000 (H) · Round 112 to the nearest ten = 110 (W) · Round 8,900 to the nearest thousand = 9000 (E) · Round 48 to the nearest ten = 50 (B) · Round 1,113 to the nearest hundred = 1100 (L)

Clue 2 (Addition): "THE BANDIT USED A RIGHT HAND GRIP ON THE LOCK"

$2189 + 3488 = 5677$ (T) · $1837 + 1054 = 2891$ (E) · $2582 + 3702 = 6284$ (L) · $2544 + 1947 = 4491$ (O) · $4366 + 2854 = 7220$ (H) · $2196 + 3642 = 5838$ (P) · $3519 + 3434 = 6953$ (I) · $1049 + 1040 = 2089$ (B) · $1721 + 865 = 2586$ (R) · $3866 + 5186 = 9052$ (N) · $2829 + 1544 = 4373$ (U) · $4451 + 4228 = 8679$ (A) · $4123 + 4959 = 9082$ (S) · $2501 + 4227 = 6728$ (D) · $4034 + 3050 = 7084$ (C) · $4648 + 4360 = 9008$ (K) · $2130 + 3145 = 5275$ (G)

Clue 3 (Subtraction): "LOUD CYMBALS MADE THE BANDIT COVER THEIR EARS"

$2729 - 1542 = 1187$ (L) · $6985 - 2921 = 4064$ (Y) · $13170 - 4350 = 8820$ (N) · $8271 - 2541 = 5730$ (A) · $5223 - 2753 = 2470$ (E) · $3019 - 1524 = 1495$ (D) · $5509 - 2163 = 3346$ (H) · $3601 - 1512 = 2089$ (C) · $7949 - 1542 = 6407$ (T) · $5923 - 3699 = 2224$ (B) · $9289 - 3189 = 6100$ (I) · $6573 - 4792 = 1781$ (M) · $7123 - 3602 = 3521$ (R) · $6282 - 3957 = 2325$ (U) · $7592 - 4630 = 2962$ (O) · $4057 - 566 = 3491$ (S) · $8670 - 1380 = 7290$ (V)

Clue 4 (Multiplication facts (1-12)): "BLACK SLICKED HAIR WAS FOUND NEAR THE TENT"

$11 \times 2 = 22$ (B) · $7 \times 5 = 35$ (H) · $4 \times 2 = 8$ (I) · $2 \times 7 = 14$ (D) · $5 \times 9 = 45$ (F) · $8 \times 4 = 32$ (W) · $4 \times 7 = 28$ (R) · $10 \times 7 = 70$ (S) · $5 \times 5 = 25$ (K) · $4 \times 12 = 48$ (A) · $9 \times 10 = 90$ (N) · $3 \times 6 = 18$ (T) · $3 \times 12 = 36$ (E) · $7 \times 1 = 7$ (C) · $6 \times 7 = 42$ (L) · $5 \times 4 = 20$ (O) · $11 \times 8 = 88$ (U)

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

$10 \div 1 = 10$ · $12 \div 3 = 4$ · $7 \div 7 = 1$ · $9 \div 3 = 3$ · $7 \div 1 = 7$ · $15 \div 3 = 5$ · $60 \div 5 = 12$ · $48 \div 8 = 6$ · $4 \div 2 = 2$ · $99 \div 11 = 9$ · $55 \div 5 = 11$