



The Whispering Island Caper

Grade 4 math · Addition, Rounding, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

An ancient gold compass has vanished from the dig site! The Head Archaeologist needs your help. One of the visiting camp explorers is secretly a rogue agent. Follow the clues, solve the math mysteries, and track down the culprit before they escape the island!

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 Rogue Explorer is _____

Possible suspects

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

NAME	PRIMARY TOOL	BACKUP GEAR	WRITING HAND	HEADWEAR	MAIN FEAR
Anna	Signal Flare	Metal Detector	Right-Handed Grip	Safari Cap	Scared of Bats
Lily	Grappling Hook	Inflatable Raft	Left-Handed Grip	Safari Cap	Allergic to Pollen
Zoe	Climbing Claws	Walkie Talkie	Left-Handed Grip	Red Beanie	Scared of Bats
Emma	Climbing Claws	Metal Detector	Left-Handed Grip	Red Beanie	Allergic to Pollen
Owen	Decrypter Tablet	Night Vision Visor	Left-Handed Grip	Red Beanie	Allergic to Pollen
Ella	Signal Flare	Mini Drone	Left-Handed Grip	Red Beanie	Allergic to Pollen
Ruby	Laser Compass	Night Vision Visor	Left-Handed Grip	Red Beanie	Dislikes Mud
Sam	Decrypter Tablet	Inflatable Raft	Left-Handed Grip	Safari Cap	Allergic to Pollen
Caleb	Signal Flare	Metal Detector	Left-Handed Grip	Red Beanie	Allergic to Pollen
Jake	Climbing Claws	Night Vision Visor	Left-Handed Grip	Red Beanie	Scared of Bats
Jack	Climbing Claws	Metal Detector	Left-Handed Grip	Pith Helmet	Allergic to Pollen
Noah	Decrypter Tablet	Metal Detector	Right-Handed Grip	Safari Cap	Scared of Bats
Sadie	Climbing Claws	Inflatable Raft	Right-Handed Grip	Pith Helmet	Scared of Bats
Wyatt	Laser Compass	Metal Detector	Left-Handed Grip	Red Beanie	Allergic to Pollen
Mia	Laser Compass	Metal Detector	Right-Handed Grip	Red Beanie	Allergic to Pollen
Zack	Signal Flare	Mini Drone	Right-Handed Grip	Pith Helmet	Scared of Bats
Maya	Decrypter Tablet	Mini Drone	Right-Handed Grip	Safari Cap	Allergic to Pollen
Chloe	Decrypter Tablet	Mini Drone	Left-Handed Grip	Red Beanie	Allergic to Pollen
Leo	Decrypter Tablet	Mini Drone	Right-Handed Grip	Pith Helmet	Dislikes Mud
Grace	Climbing Claws	Night Vision Visor	Right-Handed Grip	Red Beanie	Allergic to Pollen
Finn	Laser Compass	Walkie Talkie	Left-Handed Grip	Safari Cap	Allergic to Pollen

CLUE 1 Addition

To find the first clue, we need to count and add up all the expedition supply crates left near the camp gate.

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

T 6235	7761	8371	T 6235	7761	7920	8371	4508	5946	8578	8371	8946	8411	8578	T 6235	2319	8946	8371	3228
5377	7920	8411	7920	5946	3477	8578	8411	8371										

$2566 + 3669 = \square \rightarrow \text{T}$	$5752 + 2826 = \square \rightarrow \text{O}$	$1586 + 2922 = \square \rightarrow \text{F}$
$4170 + 4776 = \square \rightarrow \text{S}$	$1470 + 1758 = \square \rightarrow \text{A}$	$5822 + 2549 = \square \rightarrow \text{E}$
$3336 + 2041 = \square \rightarrow \text{M}$	$5104 + 3307 = \square \rightarrow \text{N}$	$5494 + 2426 = \square \rightarrow \text{I}$
$993 + 1326 = \square \rightarrow \text{U}$	$4042 + 3719 = \square \rightarrow \text{H}$	$2834 + 3112 = \square \rightarrow \text{D}$
$2214 + 1263 = \square \rightarrow \text{R}$		

Scratch space:

CLUE 2

The ancient security sensor only displays rounded numbers on its screen. Round the values to unlock the message.

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

Diagram illustrating the distribution of 10000 items across 100 boxes. The boxes are arranged in two rows of 50. The top row contains 10 boxes with 'T' (5000, 20, 2000, 900, 430, 300, 230, 9000, 70, 5000) and 40 empty boxes. The bottom row contains 5 empty boxes, 1 box with 'T' (5000), and 44 empty boxes. The numbers below the boxes represent the count of items in each box.

Round 4,516 to the nearest thousand $\rightarrow$ **T**

Round 2,866 to the nearest hundred $\rightarrow$ **F**

Round 229 to the nearest ten $\rightarrow$ **P**

Round 322 to the nearest hundred $\rightarrow$ **L**

Round 3,728 to the nearest hundred → **W**

Round 73 to the nearest ten $\rightarrow$ |

Round 129 to the nearest ten $\rightarrow$ **A**

Round 1,565 to the nearest thousand → **E**

Round 373 to the nearest ten $\rightarrow$ **G**

Round 18 to the nearest ten $\rightarrow$ **H**

Round 53 to the nearest ten $\rightarrow$ **D**

Round 1,262 to the nearest hundred → **S**

Round 9,001 to the nearest thousand $\rightarrow$ **R**

Round 430 to the nearest ten $\rightarrow$ **U**

Round 897 to the nearest hundred → **C**

Round 495 to the nearest hundred → **N**

Scratch space:

CLUE 3
Subtraction

Some tools went missing from our toolkit. Subtract the lost gear from our total to reveal the hidden trail.

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

P																		
3264	4531	3333	3333	4870	1842	5228	8412	7317	4870	6449	5809	4870						
2567	1842	4870	4870	6293	2284	1842	4591	4058	2284	3333	3333	8412	2284	1842	8897	3333	4870	4870

$5252 - 1988 = \square \rightarrow \text{P}$

$8727 - 3499 = \square \rightarrow \text{M}$

$10719 - 2307 = \square \rightarrow \text{A}$

$12484 - 3587 = \square \rightarrow \text{F}$

$6304 - 11 = \square \rightarrow \text{Z}$

$9397 - 4806 = \square \rightarrow \text{G}$

$8498 - 1181 = \square \rightarrow \text{D}$

$3897 - 564 = \square \rightarrow \text{L}$

$6055 - 3488 = \square \rightarrow \text{S}$

$8018 - 2209 = \square \rightarrow \text{H}$

$8264 - 3394 = \square \rightarrow \text{E}$

$6900 - 4616 = \square \rightarrow \text{I}$

$7288 - 839 = \square \rightarrow \text{T}$

$2738 - 896 = \square \rightarrow \text{N}$

$7062 - 2531 = \square \rightarrow \text{O}$

$5709 - 1651 = \square \rightarrow \text{V}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The temple floor is made of square tiles arranged in equal rows. Multiply the rows to find the secret button.

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

A										A					A	
15	1	14	4	48	96	30	48	64	30	15	42	18	30	32	15	20
					A											
4	30	80	144	15	144	144	28	30	20	1	30	42	30			

$3 \times 5 = \square \rightarrow$ A	$4 \times 8 = \square \rightarrow$ W	$2 \times 7 = \square \rightarrow$ O	$3 \times 6 = \square \rightarrow$ I
$8 \times 8 = \square \rightarrow$ B	$8 \times 6 = \square \rightarrow$ D	$10 \times 8 = \square \rightarrow$ F	$4 \times 7 = \square \rightarrow$ H
$5 \times 4 = \square \rightarrow$ S	$4 \times 1 = \square \rightarrow$ L	$1 \times 1 = \square \rightarrow$ C	
$12 \times 12 = \square \rightarrow$ T	$8 \times 12 = \square \rightarrow$ R	$7 \times 6 = \square \rightarrow$ N	
$3 \times 10 = \square \rightarrow$ E			

Scratch space:

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

We must divide our survival rations equally among the rescue teams to calculate the final coordinate.

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:

$44 \div 11 = \square$

$30 \div 3 = \square$

$14 \div 2 = \square$

$108 \div 9 = \square$

$56 \div 7 = \square$

$6 \div 2 = \square$

$5 \div 5 = \square$

$30 \div 6 = \square$

$77 \div 7 = \square$

$45 \div 5 = \square$

$60 \div 10 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain scaled the wall with climbing claws, then whispered into a walkie talkie.
2. The villain unlocked the decrypter tablet, then activated a night vision visor.
3. The villain fired a signal flare, then inflated a rubber raft.
4. The villain scaled the wall with climbing claws, then swept the area with a metal detector.
5. The villain swung on a grappling hook, then inflated a rubber raft.
6. The villain swung on a grappling hook, then launched a mini drone.
7. The villain fired a signal flare, then swept the area with a metal detector.
8. The villain scanned with a laser compass, then activated a night vision visor.
9. The villain swung on a grappling hook, then whispered into a walkie talkie.
10. The villain scanned with a laser compass, then swept the area with a metal detector.
11. The villain scanned with a laser compass, then inflated a rubber raft.
12. The villain unlocked the decrypter tablet, then swept the area with a metal detector.

Answer Key

The Whispering Island Caper

Culprit: Owen

Decrypter Tablet · Night Vision Visor · Left-Handed Grip · Red Beanie · Allergic to Pollen

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT USE A MINI DRONE"

$2566 + 3669 = 6235$ (T) · $5752 + 2826 = 8578$ (O) · $1586 + 2922 = 4508$ (F) · $4170 + 4776 = 8946$ (S) · $1470 + 1758 = 3228$ (A) · $5822 + 2549 = 8371$ (E) · $3336 + 2041 = 5377$ (M) · $5104 + 3307 = 8411$ (N) · $5494 + 2426 = 7920$ (I) · $993 + 1326 = 2319$ (U) · $4042 + 3719 = 7761$ (H) · $2834 + 3112 = 5946$ (D) · $2214 + 1263 = 3477$ (R)

Clue 2 (Rounding): "THE CULPRIT SIGNED WITH A LEFT GRIP"

Round 4,516 to the nearest thousand = 5000 (T) · Round 2,866 to the nearest hundred = 2900 (F) · Round 229 to the nearest ten = 230 (P) · Round 322 to the nearest hundred = 300 (L) · Round 3,728 to the nearest hundred = 3700 (W) · Round 73 to the nearest ten = 70 (I) · Round 129 to the nearest ten = 130 (A) · Round 1,565 to the nearest thousand = 2000 (E) · Round 373 to the nearest ten = 370 (G) · Round 18 to the nearest ten = 20 (H) · Round 53 to the nearest ten = 50 (D) · Round 1,262 to the nearest hundred = 1300 (S) · Round 9,001 to the nearest thousand = 9000 (R) · Round 430 to the nearest ten = 430 (U) · Round 897 to the nearest hundred = 900 (C) · Round 495 to the nearest hundred = 500 (N)

Clue 3 (Subtraction): "POLLEN MADE THE SNEEZING VILLAIN FLEE"

$5252 - 1988 = 3264$ (P) · $8727 - 3499 = 5228$ (M) · $10719 - 2307 = 8412$ (A) · $12484 - 3587 = 8897$ (F) · $6304 - 11 = 6293$ (Z) · $9397 - 4806 = 4591$ (G) · $8498 - 1181 = 7317$ (D) · $3897 - 564 = 3333$ (L) · $6055 - 3488 = 2567$ (S) · $8018 - 2209 = 5809$ (H) · $8264 - 3394 = 4870$ (E) · $6900 - 4616 = 2284$ (I) · $7288 - 839 = 6449$ (T) · $2738 - 896 = 1842$ (N) · $7062 - 2531 = 4531$ (O) · $5709 - 1651 = 4058$ (V)

Clue 4 (Multiplication facts (1-12)): "A COLD RED BEANIE WAS LEFT AT THE SCENE"

$3 \times 5 = 15$ (A) · $4 \times 8 = 32$ (W) · $2 \times 7 = 14$ (O) · $3 \times 6 = 18$ (I) · $8 \times 8 = 64$ (B) · $8 \times 6 = 48$ (D) · $10 \times 8 = 80$ (F) · $4 \times 7 = 28$ (H) · $5 \times 4 = 20$ (S) · $4 \times 1 = 4$ (L) · $1 \times 1 = 1$ (C) · $12 \times 12 = 144$ (T) · $8 \times 12 = 96$ (R) · $7 \times 6 = 42$ (N) · $3 \times 10 = 30$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Owen

$44 \div 11 = 4$ · $30 \div 3 = 10$ · $14 \div 2 = 7$ · $108 \div 9 = 12$ · $56 \div 7 = 8$ · $6 \div 2 = 3$ · $5 \div 5 = 1$ · $30 \div 6 = 5$ · $77 \div 7 = 11$ · $45 \div 5 = 9$ · $60 \div 10 = 6$