



The Lost Island Crystal Heist

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

Detective: _____ Date: _____

The legendary Sun Crystal vanished from the main expedition tent right before sunrise! Use your detective skills to catch the sneaky rogue 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 Shadow Explorer is _____

Possible suspects

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

NAME	MAIN GADGET	LOOT STOLEN	ACCESSORY	HAIRSTYLE	PHOBIA
Indy Drake	grapple hook	bronze key	wears eye patch	braided blond hair	scared of snakes
Zack Brooks	grapple hook	brass compass	wears eye patch	braided blond hair	scared of snakes
Nora Hayes	smoke bomb	map scroll	wears eye patch	braided blond hair	scared of snakes
Bruno Steele	jet glider	gold coin	wears eye patch	braided blond hair	scared of snakes
Rosa Blair	jet glider	spyglass	wears goggles	spiked brown hair	scared of frogs
Ruby Sterling	jet glider	spyglass	wears goggles	braided blond hair	scared of snakes
Clara Finch	jet glider	brass compass	wears eye patch	braided blond hair	scared of frogs
Axel Thorne	jet glider	map scroll	wears eye patch	slicked black hair	scared of bats
Hank Forest	grapple hook	gold coin	wears goggles	slicked black hair	scared of bats
Nina Vega	smoke bomb	gold coin	wears eye patch	spiked brown hair	scared of snakes
Piper Flint	jet glider	gold coin	wears goggles	spiked brown hair	scared of frogs
Dax Rivera	zipline	bronze key	wears goggles	spiked brown hair	scared of snakes
Maya Ranger	grapple hook	brass compass	wears eye patch	spiked brown hair	scared of snakes
Rex Turner	zipline	bronze key	wears eye patch	braided blond hair	scared of frogs
Cole Hunter	compass blast	brass compass	wears eye patch	spiked brown hair	scared of snakes
Cora Wilde	jet glider	spyglass	wears goggles	spiked brown hair	scared of bats
Tess Morgan	compass blast	map scroll	wears eye patch	braided blond hair	scared of snakes
Ivy Cross	compass blast	gold coin	wears goggles	spiked brown hair	scared of snakes
Sam Croft	jet glider	map scroll	wears goggles	slicked black hair	scared of frogs
Flynn West	compass blast	gold coin	wears eye patch	braided blond hair	scared of frogs
Owen Marsh	zipline	gold coin	wears goggles	braided blond hair	scared of bats

CLUE 1 Rounding

The digital altitude gauge on the radar board rounded the airship height to give us our first clue.

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

T																			
290	30	1300	1100	900	1300	7000	20	200	3700	50	230	90	300	700	290	130	700	130	
		T																	
900	3000	290	50	1100	1300	7000	430	300	3000	900	70	1300	20	1300	200				

Round 291 to the nearest ten → **T**

Round 29 to the nearest ten → **H**

Round 24 to the nearest ten → **K**

Round 6,870 to the nearest thousand → **A**

Round 72 to the nearest ten → **Z**

Round 3,687 to the nearest hundred → **C**

Round 1,272 to the nearest hundred → **E**

Round 433 to the nearest ten → **B**

Round 48 to the nearest ten → **U**

Round 910 to the nearest hundred → **N**

Round 2,800 to the nearest thousand → **O**

Round 1,107 to the nearest hundred → **S**

Round 226 to the nearest ten → **L**

Round 309 to the nearest hundred → **R**

Round 92 to the nearest ten → **P**

Round 155 to the nearest hundred → **Y**

Round 674 to the nearest hundred → **I**

Round 130 to the nearest ten → **D**

Scratch space:

CLUE 2 Addition

We tallied all the supply crates packed in the cargo tent to reveal the second clue.

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

A									A						
2553	9404	5590	3048	5760	8175	7489	7489	7489	2553	9404	3048	6361	8175		
				A					A		A				
3328	5590	3645	3645	2553	5590	5760	9404	8175	2553	4967	2553	5760	8175	4059	8175
	A														
5770	2553	3048	8367	6361											

$1145 + 1408 = \square \rightarrow \boxed{\text{A}}$

$3073 + 6331 = \square \rightarrow \boxed{\text{W}}$

$2644 + 5531 = \square \rightarrow \boxed{\text{E}}$

$1129 + 2516 = \square \rightarrow \boxed{\text{L}}$

$2982 + 1985 = \square \rightarrow \boxed{\text{R}}$

$1435 + 1893 = \square \rightarrow \boxed{\text{V}}$

$2396 + 3364 = \square \rightarrow \boxed{\text{N}}$

$5616 + 2751 = \square \rightarrow \boxed{\text{C}}$

$3952 + 3537 = \square \rightarrow \boxed{\text{S}}$

$1142 + 1906 = \square \rightarrow \boxed{\text{T}}$

$3256 + 2514 = \square \rightarrow \boxed{\text{P}}$

$2479 + 1580 = \square \rightarrow \boxed{\text{Y}}$

$1948 + 4413 = \square \rightarrow \boxed{\text{H}}$

$3365 + 2225 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

Subtraction

Comparing the remaining trail rations against what was taken helped unlock the third clue.

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

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 15 boxes, and the bottom row contains 15 boxes. Some boxes are highlighted in orange and contain the letter 'T'.

Top row (left to right):

- Box 1: Orange, contains 'T' (Number: 4646)
- Box 2: White (Number: 5483)
- Box 3: White (Number: 8851)
- Box 4: White (Number: 5129)
- Box 5: White (Number: 6050)
- Box 6: White (Number: 5835)
- Box 7: White (Number: 5122)
- Box 8: White (Number: 8851)
- Box 9: White (Number: 5129)
- Box 10: White (Number: 4617)
- Box 11: White (Number: 4033)
- Box 12: White (Number: 8851)
- Box 13: White (Number: 5122)
- Box 14: White (Number: 6050)
- Box 15: White (Number: 4617)
- Box 16: Orange, contains 'T' (Number: 4646)
- Box 17: White (Number: 8851)
- Box 18: White (Number: 5129)

Bottom row (left to right):

- Box 1: White (Number: 3022)
- Box 2: White (Number: 1550)
- Box 3: White (Number: 7309)
- Box 4: Orange, contains 'T' (Number: 4646)
- Box 5: Orange, contains 'T' (Number: 4646)
- Box 6: White (Number: 5835)
- Box 7: White (Number: 4788)
- Box 8: White (Number: 8650)
- Box 9: White (Number: 6050)
- Box 10: White (Number: 3022)
- Box 11: White (Number: 4788)
- Box 12: White (Number: 6050)
- Box 13: White (Number: 2401)
- Box 14: White (Number: 8851)

$$5859 - 1213 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$5161 - 373 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$7751 - 2622 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$8952 - 101 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$7570 - 261 = \boxed{} \rightarrow \boxed{0}$$

$$4731 - 1709 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$6406 - 571 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$3440 - 1039 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$3217 - 1667 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$6887 - 2270 = \boxed{} \rightarrow \boxed{\text{F}}$$

$7442 - 3409 = \boxed{} \rightarrow \boxed{\text{L}}$

$$8842 - 3720 = \boxed{} \rightarrow \boxed{\text{D}}$$

$7556 - 1506 = \boxed{} \rightarrow \boxed{\text{A}}$

$$8069 - 2586 = \boxed{} \rightarrow \boxed{\text{H}}$$

$8824 - 174 = \boxed{} \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

Counting equal rows of tents across the campsite uncovered our fourth clue.

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

B							B											
55	99	90	48	1	28	1	55	24	49	2	1	36	90	48	99	22	90	6
1	99	49	54	54	28	1	90	64	64	36	28	6	11	28	2	28		

$11 \times 5 =$

→

B

$2 \times 1 =$

→

N

$2 \times 11 =$

→

W

$1 \times 1 =$

→

D

$3 \times 8 =$

→

L

$3 \times 12 =$

→

H

$4 \times 7 =$

→

E

$9 \times 10 =$

→

A

$3 \times 2 =$

→

S

$9 \times 11 =$

→

R

$6 \times 9 =$

→

P

$7 \times 7 =$

→

O

$8 \times 6 =$

→

I

$8 \times 8 =$

→

T

$11 \times 1 =$

→

C

Scratch space:

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

Sharing the search maps equally among the rescue squads led us straight to the final clue.

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:

$15 \div 5 = \boxed{}$

$90 \div 9 = \boxed{}$

$84 \div 7 = \boxed{}$

$88 \div 8 = \boxed{}$

$36 \div 9 = \boxed{}$

$56 \div 8 = \boxed{}$

$96 \div 12 = \boxed{}$

$45 \div 9 = \boxed{}$

$6 \div 1 = \boxed{}$

$90 \div 10 = \boxed{}$

$1 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain slid across on a long zipline, then stole the ancient map scroll.
2. The villain knocked guards back with a compass blast, then stole the ancient map scroll.
3. The villain threw down a thick smoke bomb, then stole the ancient map scroll.
4. The villain swung in with a grapple hook, then grabbed the heavy gold coin.
5. The villain swung in with a grapple hook, then stole the ancient map scroll.
6. The villain zoomed past on a jet glider, then snatched the brass spyglass.
7. The villain knocked guards back with a compass blast, then swiped the shiny bronze key.
8. The villain zoomed past on a jet glider, then stole the ancient map scroll.
9. The villain swung in with a grapple hook, then snatched the brass spyglass.
10. The villain swung in with a grapple hook, then pocketed the antique brass compass.
11. The villain threw down a thick smoke bomb, then grabbed the heavy gold coin.
12. The villain zoomed past on a jet glider, then grabbed the heavy gold coin.

Answer Key

The Lost Island Crystal Heist

Culprit: Tess Morgan

compass blast · map scroll · wears eye patch · braided blond hair · scared of snakes

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SNEAKY CULPRIT DID NOT USE A BRONZE KEY"

Round 291 to the nearest ten = 290 (T) · Round 29 to the nearest ten = 30 (H) · Round 24 to the nearest ten = 20 (K) · Round 6,870 to the nearest thousand = 7000 (A) · Round 72 to the nearest ten = 70 (Z) · Round 3,687 to the nearest hundred = 3700 (C) · Round 1,272 to the nearest hundred = 1300 (E) · Round 433 to the nearest ten = 430 (B) · Round 48 to the nearest ten = 50 (U) · Round 910 to the nearest hundred = 900 (N) · Round 2,800 to the nearest thousand = 3000 (O) · Round 1,107 to the nearest hundred = 1100 (S) · Round 226 to the nearest ten = 230 (L) · Round 309 to the nearest hundred = 300 (R) · Round 92 to the nearest ten = 90 (P) · Round 155 to the nearest hundred = 200 (Y) · Round 674 to the nearest hundred = 700 (I) · Round 130 to the nearest ten = 130 (D)

Clue 2 (Addition): "A WITNESS SAW THE VILLAIN WEAR AN EYE PATCH"

$1145 + 1408 = 2553$ (A) · $3073 + 6331 = 9404$ (W) · $2644 + 5531 = 8175$ (E) · $1129 + 2516 = 3645$ (L) · $2982 + 1985 = 4967$ (R) · $1435 + 1893 = 3328$ (V) · $2396 + 3364 = 5760$ (N) · $5616 + 2751 = 8367$ (C) · $3952 + 3537 = 7489$ (S) · $1142 + 1906 = 3048$ (T) · $3256 + 2514 = 5770$ (P) · $2479 + 1580 = 4059$ (Y) · $1948 + 4413 = 6361$ (H) · $3365 + 2225 = 5590$ (I)

Clue 3 (Subtraction): "THE RAIDER FLED AFTER SPOTTING A SNAKE"

$5859 - 1213 = 4646$ (T) · $5161 - 373 = 4788$ (N) · $7751 - 2622 = 5129$ (R) · $8952 - 101 = 8851$ (E) · $7570 - 261 = 7309$ (O) · $4731 - 1709 = 3022$ (S) · $6406 - 571 = 5835$ (I) · $3440 - 1039 = 2401$ (K) · $3217 - 1667 = 1550$ (P) · $6887 - 2270 = 4617$ (F) · $7442 - 3409 = 4033$ (L) · $8842 - 3720 = 5122$ (D) · $7556 - 1506 = 6050$ (A) · $8069 - 2586 = 5483$ (H) · $8824 - 174 = 8650$ (G)

Clue 4 (Multiplication facts (1-12)): "BRAIDED BLOND HAIR WAS DROPPED AT THE SCENE"

$11 \times 5 = 55$ (B) · $2 \times 1 = 2$ (N) · $2 \times 11 = 22$ (W) · $1 \times 1 = 1$ (D) · $3 \times 8 = 24$ (L) · $3 \times 12 = 36$ (H) · $4 \times 7 = 28$ (E) · $9 \times 10 = 90$ (A) · $3 \times 2 = 6$ (S) · $9 \times 11 = 99$ (R) · $6 \times 9 = 54$ (P) · $7 \times 7 = 49$ (O) · $8 \times 6 = 48$ (I) · $8 \times 8 = 64$ (T) · $11 \times 1 = 11$ (C)

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

$15 \div 5 = 3$ · $90 \div 9 = 10$ · $84 \div 7 = 12$ · $88 \div 8 = 11$ · $36 \div 9 = 4$ · $56 \div 8 = 7$ · $96 \div 12 = 8$ · $45 \div 9 = 5$ · $6 \div 1 = 6$ · $90 \div 10 = 9$ · $1 \div 1 = 1$