



The Mystery of Sunken Island

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

Detective: _____ Date: _____

The Sunken Island Explorer Camp is in chaos! Someone snuck into the map room and took the golden compass. Detective, check the footprints and decode the clues to catch the thief!

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 island thief 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	HAIR STYLE	CLUE LEFT BEHIND
Tracker Tom	Machete	Signal Flare	Right Handed	Curly Hair	Squeaky Boots
Scout Sam	Machete	Compass Case	Left Handed	Curly Hair	Shiny Belt
Officer Ollie	Machete	Signal Flare	Right Handed	Spiky Hair	Loud Whistle
Ranger Reed	Flashlight	Smoke Bomb	Right Handed	Curly Hair	Squeaky Boots
Tracker Tess	Grappling Hook	Compass Case	Right Handed	Curly Hair	Shiny Belt
Agent Alex	Binoculars	Compass Case	Left Handed	Curly Hair	Squeaky Boots
Explorer Leo	Machete	Signal Flare	Right Handed	Braided Hair	Squeaky Boots
Guide Grace	Binoculars	Compass Case	Right Handed	Spiky Hair	Squeaky Boots
Navigator Max	Binoculars	Canteen	Right Handed	Spiky Hair	Squeaky Boots
Scout Stella	Flashlight	Signal Flare	Right Handed	Curly Hair	Shiny Belt
Detective Dan	Flashlight	Smoke Bomb	Left Handed	Braided Hair	Shiny Belt
Rover Ryan	Binoculars	Compass Case	Left Handed	Spiky Hair	Squeaky Boots
Pilot Piper	Binoculars	Smoke Bomb	Left Handed	Spiky Hair	Shiny Belt
Pathfinder Pam	Decoder Ring	Canteen	Left Handed	Curly Hair	Shiny Belt
Navigator Nate	Grappling Hook	Compass Case	Right Handed	Curly Hair	Loud Whistle
Hunter Hannah	Grappling Hook	Smoke Bomb	Right Handed	Curly Hair	Squeaky Boots
Trekker Tim	Grappling Hook	Compass Case	Right Handed	Curly Hair	Squeaky Boots
Captain Clara	Machete	Signal Flare	Left Handed	Spiky Hair	Shiny Belt
Sailor Sarah	Machete	Compass Case	Right Handed	Spiky Hair	Loud Whistle
Guide Gina	Binoculars	Rope Ladder	Right Handed	Curly Hair	Squeaky Boots
Ranger Rick	Flashlight	Rope Ladder	Left Handed	Curly Hair	Squeaky Boots

CLUE 1 Rounding

The map sensor only shows rounded distances to nearby tents. Round the radar numbers to narrow down where the thief fled.

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

T			T										T				
3700	2900	300	3700	2900	1100	300	2000	5000	1100	5000	20	130	3700	50	90	300	370
90	1100	2300	20	370	900	2000	900	370	110	300							

Round 3,718 to the nearest hundred → **T**

Round 46 to the nearest ten → **U**

Round 88 to the nearest ten → **S**

Round 324 to the nearest hundred → **E**

Round 886 to the nearest hundred → **L**

Round 4,989 to the nearest thousand → **D**

Round 19 to the nearest ten → **N**

Round 2,914 to the nearest hundred → **H**

Round 2,269 to the nearest hundred → **G**

Round 130 to the nearest ten → **O**

Round 368 to the nearest ten → **A**

Round 110 to the nearest ten → **R**

Round 2,065 to the nearest thousand → **F**

Round 1,094 to the nearest hundred → **I**

Scratch space:

CLUE 2 Addition

You combine the total gear packs collected from the jungle clearings to count up the evidence.

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

T			T								T					T	
2864	4824	3988	2864	4824	5633	3988	5720	4180	3988	5720	2864	3058	2240	5633	8326	2864	8339

								T					
5720	2240	8638	8930	9454	2240	5633	4313	4824	2864	4824	9454	8326	8971

$1885 + 979 = \square \rightarrow \boxed{T}$

$2382 + 1798 = \square \rightarrow \boxed{L}$

$2840 + 1984 = \square \rightarrow \boxed{H}$

$4541 + 4389 = \square \rightarrow \boxed{M}$

$1048 + 1192 = \square \rightarrow \boxed{R}$

$3334 + 4992 = \square \rightarrow \boxed{N}$

$2993 + 2640 = \square \rightarrow \boxed{I}$

$1597 + 2716 = \square \rightarrow \boxed{G}$

$3404 + 2316 = \square \rightarrow \boxed{F}$

$1743 + 2245 = \square \rightarrow \boxed{E}$

$4714 + 4257 = \square \rightarrow \boxed{D}$

$1977 + 1081 = \square \rightarrow \boxed{P}$

$4203 + 4435 = \square \rightarrow \boxed{O}$

$2619 + 5720 = \square \rightarrow \boxed{S}$

$4610 + 4844 = \square \rightarrow \boxed{A}$

Scratch space:

CLUE 3

Subtraction

You check how many supplies remain in the camp chest to see what the thief took.

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

W														
1835	1458	1041	4014	4643	4829	4829	4643	4829	5792	4643	4375	2932	7498	

4829	8711	6978	4643	4375	2176	5079	4824	1328	1328	1041	4829	4375	1041	4014

$5053 - 3218 = \square \rightarrow \boxed{W}$

$4935 - 921 = \square \rightarrow \boxed{N}$

$5864 - 72 = \square \rightarrow \boxed{H}$

$9887 - 2389 = \square \rightarrow \boxed{D}$

$6399 - 3467 = \square \rightarrow \boxed{R}$

$5207 - 3618 = \square \rightarrow \boxed{G}$

$2244 - 786 = \square \rightarrow \boxed{I}$

$8776 - 1798 = \square \rightarrow \boxed{U}$

$6763 - 1939 = \square \rightarrow \boxed{B}$

$5775 - 1132 = \square \rightarrow \boxed{E}$

$2741 - 1700 = \square \rightarrow \boxed{T}$

$13073 - 4362 = \square \rightarrow \boxed{Q}$

$6619 - 1540 = \square \rightarrow \boxed{Y}$

$1541 - 213 = \square \rightarrow \boxed{O}$

$6398 - 2023 = \square \rightarrow \boxed{A}$

$5626 - 3450 = \square \rightarrow \boxed{K}$

$6195 - 1366 = \square \rightarrow \boxed{S}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The team finds equal rows of footprints along the mud path and counts them in groups.

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

P																	
120	72	100	99	81	84	5	72	42	33	48	108	121	10	110	108	33	48

72	5	81	42	110	100	35	18	108	99	110

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

$10 \times 10 = \square \rightarrow \text{L}$

$11 \times 10 = \square \rightarrow \text{R}$

$9 \times 11 = \square \rightarrow \text{I}$

$12 \times 9 = \square \rightarrow \text{A}$

$1 \times 10 = \square \rightarrow \text{T}$

$3 \times 11 = \square \rightarrow \text{N}$

$11 \times 11 = \square \rightarrow \text{S}$

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

$1 \times 5 = \square \rightarrow \text{F}$

$9 \times 9 = \square \rightarrow \text{C}$

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

$8 \times 9 = \square \rightarrow \text{O}$

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

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

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

Scratch space:

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

You divide the total clue cards equally among the explorer squads to decode the final message.

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:

$6 \div 2 = \boxed{}$

$120 \div 10 = \boxed{}$

$10 \div 2 = \boxed{}$

$121 \div 11 = \boxed{}$

$70 \div 10 = \boxed{}$

$18 \div 2 = \boxed{}$

$10 \div 1 = \boxed{}$

$66 \div 11 = \boxed{}$

$20 \div 5 = \boxed{}$

$56 \div 7 = \boxed{}$

$6 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain cut through thick vines, then snatched the compass case.
2. The villain shined a bright flashlight, then dropped a smoke bomb.
3. The villain swung on a grappling hook, then dropped a smoke bomb.
4. The villain unlocked the vault ring, then snatched the compass case.
5. The villain scouted with binoculars, then scaled down a rope ladder.
6. The villain shined a bright flashlight, then scaled down a rope ladder.
7. The villain scouted with binoculars, then spilled a full canteen.
8. The villain cut through thick vines, then spilled a full canteen.
9. The villain unlocked the vault ring, then scaled down a rope ladder.
10. The villain unlocked the vault ring, then dropped a smoke bomb.
11. The villain scouted with binoculars, then shot off a signal flare.
12. The villain swung on a grappling hook, then snatched the compass case.

Answer Key

The Mystery of Sunken Island

Culprit: Ranger Reed

Flashlight · Smoke Bomb · Right Handed · Curly Hair · Squeaky Boots

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DID NOT USE A SIGNAL FLARE"

Round 3,718 to the nearest hundred = 3700 (T) · Round 46 to the nearest ten = 50 (U) · Round 88 to the nearest ten = 90 (S) · Round 324 to the nearest hundred = 300 (E) · Round 886 to the nearest hundred = 900 (L) · Round 4,989 to the nearest thousand = 5000 (D) · Round 19 to the nearest ten = 20 (N) · Round 2,914 to the nearest hundred = 2900 (H) · Round 2,269 to the nearest hundred = 2300 (G) · Round 130 to the nearest ten = 130 (O) · Round 368 to the nearest ten = 370 (A) · Round 110 to the nearest ten = 110 (R) · Round 2,065 to the nearest thousand = 2000 (F) · Round 1,094 to the nearest hundred = 1100 (I)

Clue 2 (Addition): "THE THIEF LEFT PRINTS FROM A RIGHT HAND"

$1885 + 979 = 2864$ (T) · $2382 + 1798 = 4180$ (L) · $2840 + 1984 = 4824$ (H) · $4541 + 4389 = 8930$ (M) · $1048 + 1192 = 2240$ (R) · $3334 + 4992 = 8326$ (N) · $2993 + 2640 = 5633$ (I) · $1597 + 2716 = 4313$ (G) · $3404 + 2316 = 5720$ (F) · $1743 + 2245 = 3988$ (E) · $4714 + 4257 = 8971$ (D) · $1977 + 1081 = 3058$ (P) · $4203 + 4435 = 8638$ (O) · $2619 + 5720 = 8339$ (S) · $4610 + 4844 = 9454$ (A)

Clue 3 (Subtraction): "WITNESSES HEARD SQUEAKY BOOTS AT NIGHT"

$5053 - 3218 = 1835$ (W) · $4935 - 921 = 4014$ (N) · $5864 - 72 = 5792$ (H) · $9887 - 2389 = 7498$ (D) · $6399 - 3467 = 2932$ (R) · $5207 - 3618 = 1589$ (G) · $2244 - 786 = 1458$ (I) · $8776 - 1798 = 6978$ (U) · $6763 - 1939 = 4824$ (B) · $5775 - 1132 = 4643$ (E) · $2741 - 1700 = 1041$ (T) · $13073 - 4362 = 8711$ (Q) · $6619 - 1540 = 5079$ (Y) · $1541 - 213 = 1328$ (O) · $6398 - 2023 = 4375$ (A) · $5626 - 3450 = 2176$ (K) · $6195 - 1366 = 4829$ (S)

Clue 4 (Multiplication facts (1-12)): "POLICE FOUND A STRAND OF CURLY HAIR"

$10 \times 12 = 120$ (P) · $10 \times 10 = 100$ (L) · $11 \times 10 = 110$ (R) · $9 \times 11 = 99$ (I) · $12 \times 9 = 108$ (A) · $1 \times 10 = 10$ (T) · $3 \times 11 = 33$ (N) · $11 \times 11 = 121$ (S) · $4 \times 12 = 48$ (D) · $1 \times 5 = 5$ (F) · $9 \times 9 = 81$ (C) · $7 \times 6 = 42$ (U) · $8 \times 9 = 72$ (O) · $12 \times 7 = 84$ (E) · $3 \times 6 = 18$ (H) · $5 \times 7 = 35$ (Y)

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

$6 \div 2 = 3$ · $120 \div 10 = 12$ · $10 \div 2 = 5$ · $121 \div 11 = 11$ · $70 \div 10 = 7$ · $18 \div 2 = 9$ · $10 \div 1 = 10$ · $66 \div 11 = 6$ · $20 \div 5 = 4$ · $56 \div 7 = 8$ · $6 \div 6 = 1$