



The Secret Island Map Mystery

Grade 2 math · Skip counting, Multiplication, Addition, Subtraction, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

The camp captain lost the gold map. The sneaky map snatcher took it. We must find the map before the sun goes down.

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 the sneaky map snatcher is _____

Possible suspects

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

NAME	CAMP SKILL	FAVORITE TOOL	ACTIVE HAND	CAP COLOR	FAVORITE TREAT
Cody	trail marking	yellow whistle	right handed	red cap	apple slices
Ruby	rope climbing	yellow whistle	right handed	green cap	sweet cookies
Sam	rope climbing	shiny spyglass	right handed	red cap	juice boxes
Jake	trail marking	loud megaphone	left handed	blue cap	sweet cookies
Dora	trail marking	shiny spyglass	right handed	green cap	sweet cookies
Ella	tree gliding	yellow whistle	right handed	green cap	apple slices
Toby	fast running	super flashlight	right handed	red cap	juice boxes
Noah	rope climbing	shiny spyglass	right handed	green cap	apple slices
Bindi	tree gliding	super flashlight	right handed	red cap	sweet cookies
Lily	rope climbing	yellow whistle	right handed	red cap	apple slices
Luke	deep digging	loud megaphone	left handed	green cap	sweet cookies
Jane	tree gliding	super flashlight	left handed	blue cap	sweet cookies
Diego	fast running	yellow whistle	left handed	green cap	apple slices
Mia	rope climbing	shiny spyglass	right handed	green cap	sweet cookies
Ben	rope climbing	super flashlight	left handed	red cap	apple slices
Zoe	deep digging	yellow whistle	right handed	green cap	juice boxes
Steve	fast running	loud megaphone	left handed	blue cap	sweet cookies
Finn	deep digging	super flashlight	right handed	blue cap	sweet cookies
Jack	fast running	shiny spyglass	right handed	green cap	sweet cookies
Max	trail marking	glow compass	right handed	green cap	sweet cookies
Leo	deep digging	yellow whistle	left handed	blue cap	juice boxes

CLUE 1

We find footprints on the beach. We skip count them by twos to see how far they go.

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

A horizontal number line starting at 0 and ending at 1000, with major tick marks every 100 units. The line is divided into segments by vertical grid lines. Below the line, there are two rows of numbers representing jumps. The first row contains: 39, 27, 140, 120, 24, 140, 40, 42, 18, 20, 24, 140, 6, 20, 140, 120, 24, 20, 39. The second row contains: 80, 120, 140, 40, 9, 16, 20, 12, 65, 20, 14, 70, 40, 120, 120.

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, , 42, 45 → **T**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **L**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 →

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **P**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, , 45, 48 → **K**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **N**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **G**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **M**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **C**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **U**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **Y**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **A**

Scratch space:

CLUE 2

Multiplication facts (1-12)

We find boxes of gear. Each box has five shiny walkie talkies. We multiply to find the total.

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

T													T					T	
63	99	132	25	40	16	16	12	40	6	77	14	40	63	132	4	77	40	63	99
T									T										
63	99	132	40	14	14	40	88	99	63	99	12	6	22						

$9 \times 7 = \square \rightarrow \boxed{\text{T}}$

$8 \times 2 = \square \rightarrow \boxed{\text{L}}$

$1 \times 6 = \square \rightarrow \boxed{\text{N}}$

$11 \times 9 = \square \rightarrow \boxed{\text{H}}$

$8 \times 11 = \square \rightarrow \boxed{\text{G}}$

$7 \times 11 = \square \rightarrow \boxed{\text{W}}$

$5 \times 8 = \square \rightarrow \boxed{\text{I}}$

$11 \times 2 = \square \rightarrow \boxed{\text{D}}$

$11 \times 12 = \square \rightarrow \boxed{\text{E}}$

$5 \times 5 = \square \rightarrow \boxed{\text{V}}$

$1 \times 12 = \square \rightarrow \boxed{\text{A}}$

$7 \times 2 = \square \rightarrow \boxed{\text{R}}$

$1 \times 4 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 3

Addition

We pack our bags for the hike. We add the old ropes and the new ropes together.

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

W								W									
60	74	71	72	89	29	33	85	60	74	74	42	54	72	72	76	87	74
54	35	89	38	69	85	87	29	42	86	74	33	87	35	42			

$20 + 40 = \square \rightarrow \boxed{\text{W}}$

$33 + 53 = \square \rightarrow \boxed{\text{H}}$

$49 + 38 = \square \rightarrow \boxed{\text{I}}$

$48 + 21 = \square \rightarrow \boxed{\text{B}}$

$30 + 42 = \square \rightarrow \boxed{\text{O}}$

$59 + 26 = \square \rightarrow \boxed{\text{S}}$

$59 + 30 = \square \rightarrow \boxed{\text{U}}$

$43 + 28 = \square \rightarrow \boxed{\text{F}}$

$42 + 34 = \square \rightarrow \boxed{\text{K}}$

$52 + 22 = \square \rightarrow \boxed{\text{E}}$

$10 + 19 = \square \rightarrow \boxed{\text{N}}$

$25 + 29 = \square \rightarrow \boxed{\text{C}}$

$23 + 15 = \square \rightarrow \boxed{\text{M}}$

$24 + 11 = \square \rightarrow \boxed{\text{R}}$

$23 + 19 = \square \rightarrow \boxed{\text{T}}$

$12 + 21 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 4

Subtraction

We had many juice boxes. Some kids drank some. We subtract to see how many are left.

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

A							A			A						
69	40	61	84	84	27	22	69	39	64	69	36	29	84	32	14	37 27

				A		
14	71	84	40	61	69	36 36

$101 - 32 = \square \rightarrow \boxed{\text{A}}$

$53 - 39 = \square \rightarrow \boxed{\text{T}}$

$63 - 23 = \square \rightarrow \boxed{\text{G}}$

$114 - 30 = \square \rightarrow \boxed{\text{E}}$

$39 - 3 = \square \rightarrow \boxed{\text{S}}$

$62 - 30 = \square \rightarrow \boxed{\text{F}}$

$53 - 24 = \square \rightarrow \boxed{\text{L}}$

$77 - 13 = \square \rightarrow \boxed{\text{W}}$

$46 - 19 = \square \rightarrow \boxed{\text{N}}$

$67 - 6 = \square \rightarrow \boxed{\text{R}}$

$45 - 23 = \square \rightarrow \boxed{\text{C}}$

$74 - 35 = \square \rightarrow \boxed{\text{P}}$

$88 - 17 = \square \rightarrow \boxed{\text{H}}$

$47 - 10 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 5**Missing addends - the last clue**

We need ten camp flags to win the game. We have six. We find the missing number.

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:

$7 + \underline{\quad} = 19$

$4 + \underline{\quad} = 11$

$4 + \underline{\quad} = 10$

$2 + \underline{\quad} = 3$

$5 + \underline{\quad} = 14$

$2 + \underline{\quad} = 13$

$1 + \underline{\quad} = 5$

$9 + \underline{\quad} = 14$

$2 + \underline{\quad} = 10$

$6 + \underline{\quad} = 8$

$9 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain runs fast down the trail, then blows a yellow whistle.
2. The villain leaves a trail of marks, then checks a glow compass.
3. The villain climbs up high trees, then shines a super flashlight.
4. The villain digs deep holes in the dirt, then shines a super flashlight.
5. The villain digs deep holes in the dirt, then checks a glow compass.
6. The villain runs fast down the trail, then looks through a shiny spyglass.
7. The villain climbs up high trees, then blows a yellow whistle.
8. The villain leaves a trail of marks, then blows a yellow whistle.
9. The villain climbs up high trees, then shouts into a loud megaphone.
10. The villain leaves a trail of marks, then looks through a shiny spyglass.
11. The villain leaves a trail of marks, then shouts into a loud megaphone.
12. The villain climbs up high trees, then looks through a shiny spyglass.

Answer Key

The Secret Island Map Mystery

Culprit: Dora

trail marking · shiny spyglass · right handed · green cap · sweet cookies

Trail: Start 21 → Clue 1 20 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE SNEAKY ONE DOES NOT USE A GLOW COMPASS"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (T) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (P) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (K) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (N) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (M) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (Y) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (A)

Clue 2 (Multiplication facts (1-12)): "THE VILLAIN WRITES WITH THEIR RIGHT HAND"

$9 \times 7 = 63$ (T) · $8 \times 2 = 16$ (L) · $1 \times 6 = 6$ (N) · $11 \times 9 = 99$ (H) · $8 \times 11 = 88$ (G) · $7 \times 11 = 77$ (W) · $5 \times 8 = 40$ (I) · $11 \times 2 = 22$ (D) · $11 \times 12 = 132$ (E) · $5 \times 5 = 25$ (V) · $1 \times 12 = 12$ (A) · $7 \times 2 = 14$ (R) · $1 \times 4 = 4$ (S)

Clue 3 (Addition): "WE FOUND SWEET COOKIE CRUMBS IN THE DIRT"

$20 + 40 = 60$ (W) · $33 + 53 = 86$ (H) · $49 + 38 = 87$ (I) · $48 + 21 = 69$ (B) · $30 + 42 = 72$ (O) · $59 + 26 = 85$ (S) · $59 + 30 = 89$ (U) · $43 + 28 = 71$ (F) · $42 + 34 = 76$ (K) · $52 + 22 = 74$ (E) · $10 + 19 = 29$ (N) · $25 + 29 = 54$ (C) · $23 + 15 = 38$ (M) · $24 + 11 = 35$ (R) · $23 + 19 = 42$ (T) · $12 + 21 = 33$ (D)

Clue 4 (Subtraction): "A GREEN CAP WAS LEFT ON THE GRASS"

$101 - 32 = 69$ (A) · $53 - 39 = 14$ (T) · $63 - 23 = 40$ (G) · $114 - 30 = 84$ (E) · $39 - 3 = 36$ (S) · $62 - 30 = 32$ (F) · $53 - 24 = 29$ (L) · $77 - 13 = 64$ (W) · $46 - 19 = 27$ (N) · $67 - 6 = 61$ (R) · $45 - 23 = 22$ (C) · $74 - 35 = 39$ (P) · $88 - 17 = 71$ (H) · $47 - 10 = 37$ (O)

Clue 5 (Missing addends): surviving statement is box 10 → Dora

$7 + \underline{\quad} = 19 = 12$ · $4 + \underline{\quad} = 11 = 7$ · $4 + \underline{\quad} = 10 = 6$ · $2 + \underline{\quad} = 3 = 1$ · $5 + \underline{\quad} = 14 = 9$ · $2 + \underline{\quad} = 13 = 11$ · $1 + \underline{\quad} = 5 = 4$ · $9 + \underline{\quad} = 14 = 5$ · $2 + \underline{\quad} = 10 = 8$ · $6 + \underline{\quad} = 8 = 2$ · $9 + \underline{\quad} = 12 = 3$