



The Great Backyard Map Hunt

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

Detective: _____ Date: _____

Oh no! Someone snuck into the secret treehouse and took the golden map. We need to follow the trail and find the Map Snatcher before lunch!

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 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	FAVORITE SHORTCUT	CLUB GEAR	MAP WRITING HAND	DETECTIVES CAP	BEST SNACK TREAT
Lily	Wooden Plank	Shiny Compass	Left Handed	Red Cap	Cheese Stick
Ruby	Jungle Vine	Spy Watch	Left Handed	Blue Cap	Juice Box
Nora	Tree Branch	Spy Watch	Left Handed	Red Cap	Cheese Stick
Zoe	Jungle Vine	Toy Binoculars	Right Handed	Green Cap	Apple Slice
Maya	Wooden Plank	Walkie Talkie	Right Handed	Green Cap	Apple Slice
Finn	Tree Branch	Spy Watch	Left Handed	Blue Cap	Juice Box
Eli	Tire Swing	Toy Binoculars	Left Handed	Red Cap	Cheese Stick
Jack	Jungle Vine	Walkie Talkie	Right Handed	Green Cap	Apple Slice
Abby	Tree Branch	Secret Badge	Left Handed	Green Cap	Juice Box
Sam	Tree Branch	Secret Badge	Left Handed	Green Cap	Cheese Stick
Leo	Rope Ladder	Secret Badge	Right Handed	Green Cap	Apple Slice
Noah	Wooden Plank	Secret Badge	Left Handed	Red Cap	Juice Box
Emma	Rope Ladder	Walkie Talkie	Left Handed	Green Cap	Juice Box
Cora	Tree Branch	Toy Binoculars	Right Handed	Green Cap	Cheese Stick
Mia	Rope Ladder	Toy Binoculars	Left Handed	Red Cap	Cheese Stick
Ella	Tire Swing	Secret Badge	Right Handed	Blue Cap	Juice Box
Luke	Wooden Plank	Toy Binoculars	Left Handed	Blue Cap	Juice Box
Toby	Rope Ladder	Shiny Compass	Left Handed	Red Cap	Cheese Stick
Cole	Wooden Plank	Shiny Compass	Left Handed	Blue Cap	Apple Slice
Owen	Tree Branch	Walkie Talkie	Left Handed	Green Cap	Juice Box
Sadie	Tree Branch	Toy Binoculars	Right Handed	Red Cap	Cheese Stick

CLUE 1 Addition

We counted the blue flags on the fort. Then we added the yellow flags to find the total. Our math helped us read the first clue!

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

T							T											T
74	59	75	90	57	61	74	83	59	75	34	52	24	75	90	57	24	74	
											T							
59	61	40	75	61	90	56	67	36	61	74	83	59						

$28 + 46 = \square \rightarrow \text{T}$	$21 + 15 = \square \rightarrow \text{W}$	$17 + 7 = \square \rightarrow \text{O}$
$19 + 38 = \square \rightarrow \text{N}$	$53 + 22 = \square \rightarrow \text{E}$	$34 + 49 = \square \rightarrow \text{C}$
$52 + 38 = \square \rightarrow \text{S}$	$12 + 28 = \square \rightarrow \text{V}$	$21 + 40 = \square \rightarrow \text{A}$
$39 + 28 = \square \rightarrow \text{Y}$	$41 + 18 = \square \rightarrow \text{H}$	$34 + 22 = \square \rightarrow \text{P}$
$23 + 11 = \square \rightarrow \text{R}$	$27 + 25 = \square \rightarrow \text{D}$	

Scratch space:

CLUE 2

We started with ten chalk pieces. We lost some in the sandbox. We subtracted to see how many were left and found a 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, with some boxes highlighted in orange and labeled 'T'.

Top Row (16 boxes):

- Box 1 (Orange, T): 64
- Box 2 (White): 44
- Box 3 (White): 36
- Box 4 (White): 84
- Box 5 (White): 22
- Box 6 (White): 57
- Box 7 (Orange, T): 64
- Box 8 (White): 52
- Box 9 (White): 44
- Box 10 (White): 36
- Box 11 (White): 89
- Box 12 (White): 28
- Box 13 (White): 89
- Box 14 (Orange, T): 76
- Box 15 (White): 64
- Box 16 (White): 36

Bottom Row (16 boxes):

- Box 1 (White): 28
- Box 2 (White): 76
- Box 3 (Orange, T): 64
- Box 4 (White): 44
- Box 5 (Orange, T): 64
- Box 6 (White): 44
- Box 7 (White): 36
- Box 8 (White): 11
- Box 9 (White): 36
- Box 10 (Orange, T): 65
- Box 11 (White): 64
- Box 12 (White): 44
- Box 13 (White): 57
- Box 14 (White): 22
- Box 15 (White): 21

$100 - 36 = \boxed{} \rightarrow \boxed{\text{T}}$

$$49 - 38 = \boxed{} \rightarrow \boxed{\text{L}}$$

$85 - 28 = \boxed{} \rightarrow \boxed{\text{A}}$

$63 - 35 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$74 - 22 = \boxed{} \rightarrow \boxed{\text{C}}$

$28 - 7 = \boxed{} \rightarrow \boxed{\text{D}}$

$70 - 34 = \boxed{} \rightarrow \boxed{\text{E}}$

$113 - 24 = \boxed{} \rightarrow \boxed{\text{R}}$

$$84 - 40 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$70 - 5 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$116 - 32 = \boxed{} \rightarrow \boxed{\text{S}}$$

$84 - 8 = \boxed{} \rightarrow \boxed{\text{I}}$

$$48 - 26 = \boxed{} \rightarrow \boxed{\text{N}}$$

Scratch space:

CLUE 3 Place value

A secret code was written on the slide. It had five tens and three ones. We used place value to unlock the next clue!

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

T						T								T		
22	17	61	42	35	78	22	33	17	61	60	77	78	35	22	42	78
													T			
97	61	84	84	52	77	33	17	61	61	42	61	42	22	23	33	55

What number has 2 tens and 2 ones? → **T**

What number has 4 tens and 2 ones? → **S**

What number has 2 tens and 3 ones? → **I**

What number has 1 ten and 7 ones? → **H**

What number has 6 tens and 0 ones? → **R**

What number has 9 tens and 7 ones? → **Y**

What number has 5 tens and 2 ones? → **O**

What number has 7 tens and 7 ones? → **W**

What number has 3 tens and 5 ones? → **N**

What number has 5 tens and 5 ones? → **K**

What number has 6 tens and 1 one? → **E**

What number has 8 tens and 4 ones? → **L**

What number has 3 tens and 3 ones? → **C**

What number has 7 tens and 8 ones? → **A**

Scratch space:

CLUE 4 Skip counting

We saw footprints in the mud going by twos. We skip counted the prints all the way to the big oak tree to find a clue!

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

W																	
80	8	28	27	14	12	10	36	40	100	18	33	9	90	100	8	10	
65	36	6	27	12	90	9	8	33	100	36	22	22					

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

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

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 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **I**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **F**

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

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **S**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **E**

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **A**

Scratch space:

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

We need eight shiny coins to open the club box. We have five. We figured out how many more we need and got 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:

$4 + \underline{\quad} = 13$

$5 + \underline{\quad} = 6$

$7 + \underline{\quad} = 14$

$3 + \underline{\quad} = 7$

$10 + \underline{\quad} = 15$

$10 + \underline{\quad} = 20$

$7 + \underline{\quad} = 9$

$7 + \underline{\quad} = 15$

$5 + \underline{\quad} = 8$

$6 + \underline{\quad} = 17$

$8 + \underline{\quad} = 20$

Step 2 - cross out the sentence with each answer:

1. The villain climbs up the rope ladder, then looks through the toy binoculars.
2. The villain crawls along the tree branch, then taps the spy watch.
3. The villain leaps off the tire swing, then taps the spy watch.
4. The villain swings on the jungle vine, then polishes the secret badge.
5. The villain runs across the wooden plank, then whispers into the walkie talkie.
6. The villain leaps off the tire swing, then looks through the toy binoculars.
7. The villain runs across the wooden plank, then checks the shiny compass.
8. The villain crawls along the tree branch, then whispers into the walkie talkie.
9. The villain climbs up the rope ladder, then checks the shiny compass.
10. The villain swings on the jungle vine, then taps the spy watch.
11. The villain runs across the wooden plank, then looks through the toy binoculars.
12. The villain swings on the jungle vine, then checks the shiny compass.

Answer Key

The Great Backyard Map Hunt

Culprit: Eli

Tire Swing · Toy Binoculars · Left Handed · Red Cap · Cheese Stick

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNATCHER DOES NOT HAVE A SPY WATCH"

$28 + 46 = 74$ (T) · $21 + 15 = 36$ (W) · $17 + 7 = 24$ (O) · $19 + 38 = 57$ (N) · $53 + 22 = 75$ (E) · $34 + 49 = 83$ (C) · $52 + 38 = 90$ (S) · $12 + 28 = 40$ (V) · $21 + 40 = 61$ (A) · $39 + 28 = 67$ (Y) · $41 + 18 = 59$ (H) · $34 + 22 = 56$ (P) · $23 + 11 = 34$ (R) · $27 + 25 = 52$ (D)

Clue 2 (Subtraction): "THE SNATCHER WRITES WITH THE LEFT HAND"

$100 - 36 = 64$ (T) · $49 - 38 = 11$ (L) · $85 - 28 = 57$ (A) · $63 - 35 = 28$ (W) · $74 - 22 = 52$ (C) · $28 - 7 = 21$ (D) · $70 - 34 = 36$ (E) · $113 - 24 = 89$ (R) · $84 - 40 = 44$ (H) · $70 - 5 = 65$ (F) · $116 - 32 = 84$ (S) · $84 - 8 = 76$ (I) · $48 - 26 = 22$ (N)

Clue 3 (Place value): "THE SNATCHER WANTS A YELLOW CHEESE STICK"

What number has 2 tens and 2 ones? = 22 (T) · What number has 4 tens and 2 ones? = 42 (S) · What number has 2 tens and 3 ones? = 23 (I) · What number has 1 ten and 7 ones? = 17 (H) · What number has 6 tens and 0 ones? = 60 (R) · What number has 9 tens and 7 ones? = 97 (Y) · What number has 5 tens and 2 ones? = 52 (O) · What number has 7 tens and 7 ones? = 77 (W) · What number has 3 tens and 5 ones? = 35 (N) · What number has 5 tens and 5 ones? = 55 (K) · What number has 6 tens and 1 one? = 61 (E) · What number has 8 tens and 4 ones? = 84 (L) · What number has 3 tens and 3 ones? = 33 (C) · What number has 7 tens and 8 ones? = 78 (A)

Clue 4 (Skip counting): "WE FOUND A BRIGHT RED CAP ON THE GRASS"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (W) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (H) · 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 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (N) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (A)

Clue 5 (Missing addends): surviving statement is box 6 → Eli

$4 + \underline{\quad} = 13 = 9$ · $5 + \underline{\quad} = 6 = 1$ · $7 + \underline{\quad} = 14 = 7$ · $3 + \underline{\quad} = 7 = 4$ · $10 + \underline{\quad} = 15 = 5$ · $10 + \underline{\quad} = 20 = 10$ · $7 + \underline{\quad} = 9 = 2$ · $7 + \underline{\quad} = 15 = 8$ · $5 + \underline{\quad} = 8 = 3$ · $6 + \underline{\quad} = 17 = 11$ · $8 + \underline{\quad} = 20 = 12$