



The Case of the Missing Treasure Map

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

Detective: _____ Date: _____

Someone grabbed the big treasure map and ran into the trees. Now the Trail Guide is missing too! Help the camp kids follow the clues and find the Map Snatcher.

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	EXPLORER STYLE	GADGET	KIND OF EXPLORER	HAIR COLOR	WEAK SPOT
Ivy	cave crawler	spyglass	girl explorer	brown hair	ticklish feet
Finn	cliff climber	rope ladder	boy explorer	red hair	ticklish feet
Nia	vine swinger	compass	girl explorer	red hair	sneezes at flowers
Ruby	jungle tracker	spyglass	boy explorer	red hair	scared of bugs
Zoe	jungle tracker	grappling hook	girl explorer	red hair	ticklish feet
Fern	cliff climber	grappling hook	boy explorer	red hair	ticklish feet
Sam	cave crawler	compass	boy explorer	brown hair	ticklish feet
Cody	river rafter	grappling hook	boy explorer	brown hair	sneezes at flowers
Lily	vine swinger	compass	girl explorer	black hair	scared of bugs
Hazel	cliff climber	lantern	boy explorer	brown hair	ticklish feet
Leo	jungle tracker	rope ladder	boy explorer	brown hair	ticklish feet
Pearl	cave crawler	lantern	boy explorer	brown hair	ticklish feet
Jack	cave crawler	compass	boy explorer	black hair	ticklish feet
Max	cave crawler	lantern	girl explorer	brown hair	sneezes at flowers
Beau	cliff climber	rope ladder	boy explorer	black hair	ticklish feet
Gus	cliff climber	spyglass	girl explorer	red hair	ticklish feet
Owen	cave crawler	spyglass	boy explorer	brown hair	ticklish feet
Jake	vine swinger	compass	girl explorer	red hair	scared of bugs
Cole	vine swinger	grappling hook	girl explorer	black hair	scared of bugs
Ella	cliff climber	grappling hook	boy explorer	black hair	ticklish feet
Daisy	river rafter	compass	girl explorer	black hair	scared of bugs

CLUE 1 Place value (tens & ones)

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

A number line from 0 to 100 with increments of 10. The number 17 is highlighted in orange and labeled with a 'T'.

What number has 1 ten and 7 ones?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points from this box to another rectangular box on the right. This second box contains the letter 'T' in its center.

What number has 4 tens and 8 ones?

A diagram illustrating a transition. On the left is a simple rectangular box. An arrow points from this box to a second box on the right. The second box is a rounded rectangle with a thick black border and contains the capital letter 'H' in the center.

What number has 7 tens and 9 ones?

A diagram showing a rectangular box on the left, followed by a right-pointing arrow, and then a square box on the right containing the letter 'E'.

What number has 9 tens and 4 ones?

A diagram illustrating a transition. On the left is a rounded rectangle. An arrow points from this rectangle to another rounded rectangle on the right, which contains the letter 'S'.

What number has 5 tens and 4 ones?

A diagram showing a mapping from an empty box to a box labeled 'N'. An arrow points from an empty box on the left to a box containing the letter 'N' on the right.

What number has 4 tens and 7 ones?



What number has 1 ten and 3 ones?

What number has 7 tens and 0 ones?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points from this box to a second box on the right. The second box is labeled with the letter 'R' in a bold, sans-serif font.

What number has 2 tens and 7 ones?

A diagram showing a transition from an empty box to a box containing the letter 'O'. The first box is empty, followed by a right-pointing arrow, and then a second box containing the letter 'O'.

What number has 7 tens and 4 ones?

A diagram illustrating a transition. On the left is an empty rounded rectangle. An arrow points to the right, where there is a rounded rectangle containing the letter 'U'.

What number has 7 tens and 6 ones?

A diagram showing a box with an arrow pointing to a box labeled P.

What number has 2 tens and 3 ones?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points to the right, where a second box is shown. This second box is identical in shape to the first but has a thick border and contains the capital letter 'L' in the center.

What number has 8 tens and 1 one?

A diagram showing a box with an arrow pointing to a box labeled D.

Scratch space:

CLUE 2

Addition

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

A		A							A		A							
39	89	39	26	32	86	56	54	39	84	39	27	87	40	56	36	21		
24	21	29	87	29	94	86	29	56	86	86	54							

$14 + 25 = \square \rightarrow \boxed{\text{A}}$

$51 + 38 = \square \rightarrow \boxed{\text{C}}$

$12 + 14 = \square \rightarrow \boxed{\text{M}}$

$12 + 20 = \square \rightarrow \boxed{\text{P}}$

$49 + 37 = \square \rightarrow \boxed{\text{E}}$

$36 + 20 = \square \rightarrow \boxed{\text{R}}$

$16 + 38 = \square \rightarrow \boxed{\text{S}}$

$53 + 31 = \square \rightarrow \boxed{\text{W}}$

$12 + 15 = \square \rightarrow \boxed{\text{B}}$

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

$16 + 24 = \square \rightarrow \boxed{\text{Y}}$

$21 + 15 = \square \rightarrow \boxed{\text{U}}$

$15 + 6 = \square \rightarrow \boxed{\text{N}}$

$12 + 12 = \square \rightarrow \boxed{\text{I}}$

$15 + 14 = \square \rightarrow \boxed{\text{T}}$

$46 + 48 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 3
Subtraction

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

W																
42	17	71	70	73	20	13	17	82	71	50	17	71	50	70	17	15

									W		
65	79	82	70	71	52	45	71	65	42	65	69

68 - 26 = → W	53 - 36 = → E	90 - 19 = → T
99 - 29 = → I	104 - 31 = → C	39 - 19 = → K
20 - 7 = → L	122 - 40 = → D	55 - 5 = → H
36 - 21 = → F	66 - 1 = → A	95 - 16 = → N
80 - 28 = → G	70 - 25 = → O	73 - 4 = → Y

Scratch space:

CLUE 4

Skip counting

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

A							A				A						
60	15	25	90	28	33	120	60	14	25	35	60	27	90	33	18	120	39

	A			A			
50	60	42	18	60	15	35	39

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **A**

Skip-count by 5s - fill the blank: 5, 10, __, 20, 25 → **B**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, __, 30, 35 → **R**

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

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

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

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

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

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **L**

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

Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, __, 21, 24 → **T**

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

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **M**

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

Scratch space:

CLUE 5**Missing addends - the last 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:

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

$9 + \underline{\quad} = 16$

$4 + \underline{\quad} = 7$

$5 + \underline{\quad} = 13$

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

$7 + \underline{\quad} = 17$

$7 + \underline{\quad} = 16$

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

$9 + \underline{\quad} = 21$

$8 + \underline{\quad} = 9$

$5 + \underline{\quad} = 9$

Step 2 - cross out the sentence with each answer:

1. The villain sneaks through the tall grass, then lights a lantern.
2. The villain crawls out of a cave, then checks a compass.
3. The villain climbs down the cliff, then lights a lantern.
4. The villain swings in on a vine, then drops a rope ladder.
5. The villain floats up on a raft, then checks a compass.
6. The villain crawls out of a cave, then peeks through a spyglass.
7. The villain crawls out of a cave, then lights a lantern.
8. The villain crawls out of a cave, then drops a rope ladder.
9. The villain sneaks through the tall grass, then checks a compass.
10. The villain climbs down the cliff, then peeks through a spyglass.
11. The villain swings in on a vine, then tosses a grappling hook.
12. The villain climbs down the cliff, then drops a rope ladder.

Answer Key

The Case of the Missing Treasure Map

Culprit: Owen

cave crawler · spyglass · boy explorer · brown hair · ticklish feet

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value (tens & ones)): "THE SNATCHER CANNOT USE A ROPE LADDER"

What number has 1 ten and 7 ones? = 17 (T) · What number has 4 tens and 8 ones? = 48 (H) · What number has 7 tens and 9 ones? = 79 (E) · What number has 9 tens and 4 ones? = 94 (S) · What number has 5 tens and 4 ones? = 54 (N) · What number has 4 tens and 7 ones? = 47 (A) · What number has 1 ten and 3 ones? = 13 (C) · What number has 7 tens and 0 ones? = 70 (R) · What number has 2 tens and 7 ones? = 27 (O) · What number has 7 tens and 4 ones? = 74 (U) · What number has 7 tens and 6 ones? = 76 (P) · What number has 2 tens and 3 ones? = 23 (L) · What number has 8 tens and 1 one? = 81 (D)

Clue 2 (Addition): "A CAMPER SAW A BOY RUN INTO THE TREES"

$14 + 25 = 39$ (A) · $51 + 38 = 89$ (C) · $12 + 14 = 26$ (M) · $12 + 20 = 32$ (P) · $49 + 37 = 86$ (E) · $36 + 20 = 56$ (R) · $16 + 38 = 54$ (S) · $53 + 31 = 84$ (W) · $12 + 15 = 27$ (B) · $49 + 38 = 87$ (O) · $16 + 24 = 40$ (Y) · $21 + 15 = 36$ (U) · $15 + 6 = 21$ (N) · $12 + 12 = 24$ (I) · $15 + 14 = 29$ (T) · $46 + 48 = 94$ (H)

Clue 3 (Subtraction): "WE TICKLED THE THIEF AND IT GOT AWAY"

$68 - 26 = 42$ (W) · $53 - 36 = 17$ (E) · $90 - 19 = 71$ (T) · $99 - 29 = 70$ (I) · $104 - 31 = 73$ (C) · $39 - 19 = 20$ (K) · $20 - 7 = 13$ (L) · $122 - 40 = 82$ (D) · $55 - 5 = 50$ (H) · $36 - 21 = 15$ (F) · $66 - 1 = 65$ (A) · $95 - 16 = 79$ (N) · $80 - 28 = 52$ (G) · $70 - 25 = 45$ (O) · $73 - 4 = 69$ (Y)

Clue 4 (Skip counting): "A BROWN HAIR LAY ON THE MAP TABLE"

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (A) · Skip-count by 5s - fill the blank: 5, 10, __, 20, 25 = 15 (B) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (R) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (O) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (W) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (N) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (H) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (I) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (L) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (Y) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (T) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (E) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (M) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (P)

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

$6 + \underline{\quad} = 8 = 2$ · $9 + \underline{\quad} = 16 = 7$ · $4 + \underline{\quad} = 7 = 3$ · $5 + \underline{\quad} = 13 = 8$ · $2 + \underline{\quad} = 13 = 11$ · $7 + \underline{\quad} = 17 = 10$ · $7 + \underline{\quad} = 16 = 9$ · $10 + \underline{\quad} = 15 = 5$ · $9 + \underline{\quad} = 21 = 12$ · $8 + \underline{\quad} = 9 = 1$ · $5 + \underline{\quad} = 9 = 4$