



The Great Treehouse Camp Mystery

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

Detective: _____ Date: _____

Oh no! The Golden Marshmallow Trophy is gone! Someone took it from the main campfire circle right before the big camp party. Leader Sam needs your help to follow the clues, track down the sneaky culprit, and save the summer camp celebration!

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 Camp Bandit is _____

Possible suspects

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

NAME	CAMP GEAR	CAMP BADGE	HAND TRAIT	CAP COLOR	FEAR
Wyatt	canteen	cooking badge	right-handed	green cap	dark caves
Max	flashlight	canoe badge	right-handed	green cap	dark caves
Milo	canteen	knot badge	right-handed	blue cap	frogs
Otis	canteen	hiking badge	right-handed	green cap	frogs
Penny	binoculars	knot badge	right-handed	green cap	frogs
Toby	compass	canoe badge	left-handed	green cap	frogs
Piper	binoculars	cooking badge	right-handed	red cap	spiderwebs
Billy	binoculars	cooking badge	right-handed	red cap	frogs
Hazel	flashlight	cooking badge	right-handed	blue cap	spiderwebs
Zoe	flashlight	knot badge	right-handed	red cap	frogs
Daisy	map	knot badge	right-handed	green cap	dark caves
Scout	compass	hiking badge	left-handed	red cap	dark caves
Finn	canteen	tent badge	right-handed	red cap	frogs
Ruby	flashlight	canoe badge	left-handed	red cap	frogs
Ryder	flashlight	hiking badge	right-handed	red cap	spiderwebs
Jack	compass	canoe badge	right-handed	red cap	frogs
Clover	flashlight	tent badge	left-handed	green cap	spiderwebs
Emma	compass	cooking badge	right-handed	red cap	dark caves
Jax	canteen	cooking badge	left-handed	red cap	frogs
Lily	binoculars	cooking badge	left-handed	red cap	dark caves
Maya	flashlight	hiking badge	right-handed	red cap	frogs

CLUE 1 **Addition**

We find a notepad on the ground. We add three blue pens and four red pens to count the clues.

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

T								T								T
14	18	20	3	9	8	17	16	14	17	12	20	10	8	12	14	

18	9	19	20	9	2	9	8	12	20	3	9	17	13	20

6 + 8 = → T	1 + 1 = → C	7 + 5 = → O	6 + 2 = → N
11 + 5 = → I	8 + 11 = → V	4 + 6 = → S	
7 + 2 = → A	1 + 2 = → B	10 + 10 = → E	
11 + 6 = → D	9 + 4 = → G	8 + 10 = → H	

Scratch space:

CLUE 2

The camp kitchen is messy. We had ten apples but five are missing now. This points us to the next hint.

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

$9 - 4 = \square \rightarrow \boxed{\text{T}}$

10 - 3 = → **E**

13 - 1 = →

$20 - 1 = \square \rightarrow \boxed{\text{H}}$

$15 - 1 = \square \rightarrow \boxed{\text{C}}$

14 - 6 = → **U**

$19 - 1 = \square \rightarrow \boxed{\mathbf{A}}$

$20 - 3 = \boxed{} \rightarrow \boxed{\text{R}}$

$20 - 9 = \square \rightarrow \boxed{\text{W}}$

$19 - 6 = \boxed{} \rightarrow \boxed{\text{B}}$

12 - 9 = → **G**

$8 - 7 = \square \rightarrow \boxed{\text{N}}$

12 - 6 = →

$10 - 6 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 3 Skip counting

We follow muddy boot prints on the trail. We count them by twos to see where they go.

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

T																
18	15	33	35	6	30	39	65	18	120	6	30	6	60	6	8	
60	15	33	30	6	12	120	90	10	9	50	21	20	33	39		

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 → **N**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **M**

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

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

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **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, __, 14, 16 → **F**

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

Scratch space:

CLUE 4 Place value

We find a pile of shiny pinecones. They are grouped into tens and ones. The total number unlocks a clue.

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

A																		
24	99	78	88	91	42	48	78	58	74	48	42	78	58	24	74	16	24	70

36	58	26	48	81	25	48	42	58	78	81	29	58	

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

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

What number has 8 tens and 8 ones? → **I**

What number has 5 tens and 8 ones? → **E**

What number has 7 tens and 0 ones? → **S**

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

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

What number has 1 ten and 6 ones? → **W**

What number has 9 tens and 9 ones? → **B**

What number has 9 tens and 1 one? → **G**

What number has 2 tens and 9 ones? → **P**

What number has 3 tens and 6 ones? → **L**

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

What number has 2 tens and 6 ones? → **F**

What number has 7 tens and 4 ones? → **D**

What number has 8 tens and 1 one? → **O**

Scratch space:

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

The snack box needs eight juice boxes. There are only six inside. We must find how many are gone.

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:

$7 + \underline{\quad} = 8$

$10 + \underline{\quad} = 17$

$1 + \underline{\quad} = 13$

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

$4 + \underline{\quad} = 9$

$6 + \underline{\quad} = 14$

$8 + \underline{\quad} = 18$

$6 + \underline{\quad} = 10$

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

$10 + \underline{\quad} = 16$

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

Step 2 - cross out the sentence with each answer:

1. The villain sneaks past the sleeping tents, then disappears into the tall ferns.
2. The villain sneaks past the sleeping tents, then hides in the hollow oak.
3. The villain climbs up the wooden ladder, then hides in the hollow oak.
4. The villain sneaks past the sleeping tents, then jumps over the campfire logs.
5. The villain swings on a rope bridge, then hides in the hollow oak.
6. The villain paddles across the quiet lake, then hides in the hollow oak.
7. The villain paddles across the quiet lake, then creeps into the mess hall.
8. The villain climbs up the wooden ladder, then disappears into the tall ferns.
9. The villain zips down the long zip line, then creeps into the mess hall.
10. The villain zips down the long zip line, then runs down the muddy trail.
11. The villain zips down the long zip line, then hides in the hollow oak.
12. The villain climbs up the wooden ladder, then runs down the muddy trail.

Answer Key

The Great Treehouse Camp Mystery

Culprit: Maya

flashlight · hiking badge · right-handed · red cap · frogs

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT HAVE A CANOE BADGE"

$6 + 8 = 14$ (T) · $1 + 1 = 2$ (C) · $7 + 5 = 12$ (O) · $6 + 2 = 8$ (N) · $11 + 5 = 16$ (I) · $8 + 11 = 19$ (V) · $4 + 6 = 10$ (S) · $7 + 2 = 9$ (A) · $1 + 2 = 3$ (B) · $10 + 10 = 20$ (E) · $11 + 6 = 17$ (D) · $9 + 4 = 13$ (G) · $8 + 10 = 18$ (H)

Clue 2 (Subtraction): "THE BANDIT REACHED OUT WITH THEIR RIGHT HAND"

$9 - 4 = 5$ (T) · $10 - 3 = 7$ (E) · $13 - 1 = 12$ (I) · $20 - 1 = 19$ (H) · $15 - 1 = 14$ (C) · $14 - 6 = 8$ (U) · $19 - 1 = 18$ (A) · $20 - 3 = 17$ (R) · $20 - 9 = 11$ (W) · $19 - 6 = 13$ (B) · $12 - 9 = 3$ (G) · $8 - 7 = 1$ (N) · $12 - 6 = 6$ (O) · $10 - 6 = 4$ (D)

Clue 3 (Skip counting): "THE BANDIT RAN AWAY WHEN A FROG JUMPED"

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

Clue 4 (Place value): "A BRIGHT RED THREAD WAS LEFT ON THE ROPE"

What number has 2 tens and 4 ones? = 24 (A) · What number has 2 tens and 5 ones? = 25 (N) · What number has 8 tens and 8 ones? = 88 (I) · What number has 5 tens and 8 ones? = 58 (E) · What number has 7 tens and 0 ones? = 70 (S) · What number has 4 tens and 2 ones? = 42 (H) · What number has 7 tens and 8 ones? = 78 (R) · What number has 1 ten and 6 ones? = 16 (W) · What number has 9 tens and 9 ones? = 99 (B) · What number has 9 tens and 1 one? = 91 (G) · What number has 2 tens and 9 ones? = 29 (P) · What number has 3 tens and 6 ones? = 36 (L) · What number has 4 tens and 8 ones? = 48 (T) · What number has 2 tens and 6 ones? = 26 (F) · What number has 7 tens and 4 ones? = 74 (D) · What number has 8 tens and 1 one? = 81 (O)

Clue 5 (Missing addends): surviving statement is box 3 → Maya

$7 + \underline{\quad} = 8 = 1$ · $10 + \underline{\quad} = 17 = 7$ · $1 + \underline{\quad} = 13 = 12$ · $4 + \underline{\quad} = 13 = 9$ · $4 + \underline{\quad} = 9 = 5$ · $6 + \underline{\quad} = 14 = 8$ · $8 + \underline{\quad} = 18 = 10$ · $6 + \underline{\quad} = 10 = 4$ · $6 + \underline{\quad} = 17 = 11$ · $10 + \underline{\quad} = 16 = 6$ · $6 + \underline{\quad} = 8 = 2$