

The Camp Cabin Mystery

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

Detective: _____ Date: _____

Oh no! The Golden Compass is gone from the main cabin. Head Guide Barnaby needs our help. One of the campers took it!

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 sneaky camper is _____

Possible suspects

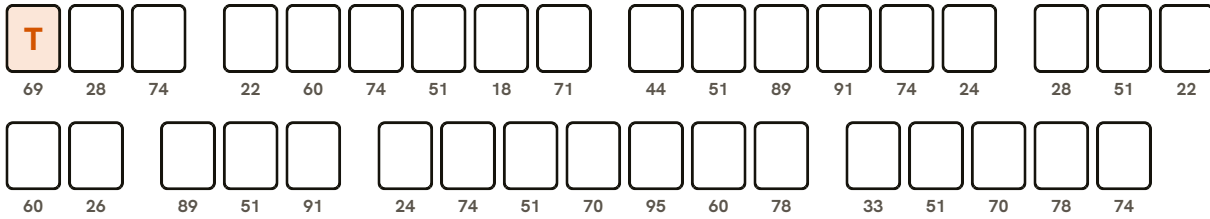
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	EXPLORER GEAR	CAMP BADGE	WRITING STYLE	SAFARI HAT	BIG FEAR
Rex	map compass	fire building badge	left-handed writer	red safari hat	scared of mud
Toby	climbing hook	bug catching badge	left-handed writer	blue safari hat	scared of spiders
Noah	rope lasso	knot tying badge	left-handed writer	red safari hat	scared of mud
Emma	rope lasso	knot tying badge	left-handed writer	red safari hat	scared of spiders
Ruby	climbing hook	fire building badge	left-handed writer	red safari hat	scared of mud
Ben	climbing hook	fire building badge	left-handed writer	red safari hat	scared of frogs
Luke	rope lasso	map reading badge	left-handed writer	red safari hat	scared of mud
Jack	walkie talkie	knot tying badge	right-handed writer	red safari hat	scared of mud
Max	walkie talkie	bug catching badge	right-handed writer	green safari hat	scared of spiders
Amy	climbing hook	tent pitching badge	right-handed writer	blue safari hat	scared of spiders
Abby	climbing hook	knot tying badge	left-handed writer	blue safari hat	scared of mud
Jake	map compass	bug catching badge	left-handed writer	red safari hat	scared of mud
Leo	bright flashlight	map reading badge	left-handed writer	green safari hat	scared of frogs
Finn	rope lasso	tent pitching badge	right-handed writer	blue safari hat	scared of spiders
Cody	climbing hook	fire building badge	left-handed writer	blue safari hat	scared of frogs
Lily	map compass	knot tying badge	right-handed writer	red safari hat	scared of spiders
Mia	walkie talkie	knot tying badge	left-handed writer	red safari hat	scared of spiders
Joy	rope lasso	fire building badge	right-handed writer	green safari hat	scared of mud
Zoe	rope lasso	knot tying badge	left-handed writer	blue safari hat	scared of mud
Eli	rope lasso	fire building badge	left-handed writer	red safari hat	scared of frogs
Ella	map compass	tent pitching badge	left-handed writer	blue safari hat	scared of frogs

CLUE 1 Place value

We find a digital lock box on the trail. It has tens and ones blocks on the screen. Let us count the blocks to open the box and get the first clue.

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



What number has 6 tens and 9 ones? → **T**

What number has 7 tens and 1 one? → **Y**

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

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

What number has 9 tens and 5 ones? → **I**

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

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

What number has 2 tens and 8 ones? → **H**

What number has 5 tens and 1 one? → **A**

What number has 8 tens and 9 ones? → **M**

What number has 4 tens and 4 ones? → **C**

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

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

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

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

What number has 1 ten and 8 ones? → **K**

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

Scratch space:

CLUE 2 Addition

We find some footprints in the wet dirt. First we see four tracks. Then we see three more tracks. Let us add them up to find the next clue.

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

T															
6	2	5	14	15	5	20	4	16	11	20	3	7	5	18	
			T					T		T					
12	18	13	6	5	14	12	13	6	2	6	2	5	13	18	
2	20	15	9												

$1 + 5 = \square \rightarrow$ T	$6 + 14 = \square \rightarrow$ A	$14 + 5 = \square \rightarrow$ F	
$1 + 4 = \square \rightarrow$ E	$6 + 12 = \square \rightarrow$ R	$2 + 2 = \square \rightarrow$ K	$2 + 5 = \square \rightarrow$ P
$6 + 9 = \square \rightarrow$ N	$8 + 5 = \square \rightarrow$ I	$2 + 1 = \square \rightarrow$ M	$3 + 7 = \square \rightarrow$ L
$6 + 8 = \square \rightarrow$ S	$8 + 8 = \square \rightarrow$ Y	$5 + 6 = \square \rightarrow$ C	$5 + 7 = \square \rightarrow$ W
$1 + 1 = \square \rightarrow$ H	$4 + 5 = \square \rightarrow$ D		

Scratch space:

CLUE 3 Subtraction

We need energy to keep up the search. We start with eight sweet berries in our pack. We eat some berries. Let us subtract to see how many are left.

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

T																		
8	9	2	6	19	2	1	17	16	15	1	14	5	2	11	11	1	19	
1	10	1	16	3	11	13	14	1	14	7	12	5	7	12	12	4	2	

$16 - 8 = \square \rightarrow$ T	$10 - 1 = \square \rightarrow$ H	$13 - 7 = \square \rightarrow$ S	
$20 - 1 = \square \rightarrow$ N	$8 - 7 = \square \rightarrow$ A	$13 - 1 = \square \rightarrow$ D	$12 - 8 = \square \rightarrow$ L
$17 - 1 = \square \rightarrow$ Y	$9 - 4 = \square \rightarrow$ P	$16 - 6 = \square \rightarrow$ W	$4 - 2 = \square \rightarrow$ E
$19 - 4 = \square \rightarrow$ C	$9 - 2 = \square \rightarrow$ U	$18 - 1 = \square \rightarrow$ K	$20 - 7 = \square \rightarrow$ O
$20 - 6 = \square \rightarrow$ M	$11 - 8 = \square \rightarrow$ F	$19 - 8 = \square \rightarrow$ R	

Scratch space:

CLUE 4 Skip counting

We must climb up the big wood stairs to the treehouse. We count the steps by twos to go fast. Let us skip count to reach the top where a clue is hidden.

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

W																	
6	26	20	35	140	80	70	39	60	24	50	12	15	10	24	26	70	
18	10	24	39	36	35	80	10	15	26	60	24	39	80	42	15		

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

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

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

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

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

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

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

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

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, __, 55, 60 → **I**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **E**

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

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

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

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

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

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

Scratch space:

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

Our team needs six dry sticks to build a campfire. We only have four sticks. Let us find out how many more we need to get 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:

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

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

$1 + \underline{\quad} = 6$

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

$8 + \underline{\quad} = 19$

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

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

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

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

$1 + \underline{\quad} = 10$

$6 + \underline{\quad} = 13$

Step 2 - cross out the sentence with each answer:

1. The villain threw a long rope, then looked at the stars.
2. The villain shined a strong light, then set up a small tent.
3. The villain threw a long rope, then gathered dry sticks.
4. The villain followed a trail map, then swept for beetles.
5. The villain threw a long rope, then tied a double knot.
6. The villain followed a trail map, then gathered dry sticks.
7. The villain swung a climbing hook, then looked at the stars.
8. The villain swung a climbing hook, then gathered dry sticks.
9. The villain swung a climbing hook, then tied a double knot.
10. The villain followed a trail map, then set up a small tent.
11. The villain shined a strong light, then tied a double knot.
12. The villain called on a radio, then gathered dry sticks.

Answer Key

The Camp Cabin Mystery

Culprit: Jake

map compass · bug catching badge · left-handed writer · red safari hat · scared of mud

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY CAMPER HAS NO MAP READING BADGE"

What number has 6 tens and 9 ones? = 69 (T) · What number has 7 tens and 1 one? = 71 (Y) · What number has 7 tens and 0 ones? = 70 (D) · What number has 3 tens and 3 ones? = 33 (B) · What number has 9 tens and 5 ones? = 95 (I) · What number has 7 tens and 8 ones? = 78 (G) · What number has 7 tens and 4 ones? = 74 (E) · What number has 2 tens and 8 ones? = 28 (H) · What number has 5 tens and 1 one? = 51 (A) · What number has 8 tens and 9 ones? = 89 (M) · What number has 4 tens and 4 ones? = 44 (C) · What number has 2 tens and 4 ones? = 24 (R) · What number has 9 tens and 1 one? = 91 (P) · What number has 6 tens and 0 ones? = 60 (N) · What number has 2 tens and 2 ones? = 22 (S) · What number has 1 ten and 8 ones? = 18 (K) · What number has 2 tens and 6 ones? = 26 (O)

Clue 2 (Addition): "THE SNEAKY CAMPER WRITES WITH THEIR LEFT HAND"

$1 + 5 = 6$ (T) · $6 + 14 = 20$ (A) · $14 + 5 = 19$ (F) · $1 + 4 = 5$ (E) · $6 + 12 = 18$ (R) · $2 + 2 = 4$ (K) · $2 + 5 = 7$ (P) · $6 + 9 = 15$ (N) · $8 + 5 = 13$ (I) · $2 + 1 = 3$ (M) · $3 + 7 = 10$ (L) · $6 + 8 = 14$ (S) · $8 + 8 = 16$ (Y) · $5 + 6 = 11$ (C) · $5 + 7 = 12$ (W) · $1 + 1 = 2$ (H) · $4 + 5 = 9$ (D)

Clue 3 (Subtraction): "THE SNEAKY CAMPER RAN AWAY FROM A MUD PUDDLE"

$16 - 8 = 8$ (T) · $10 - 1 = 9$ (H) · $13 - 7 = 6$ (S) · $20 - 1 = 19$ (N) · $8 - 7 = 1$ (A) · $13 - 1 = 12$ (D) · $12 - 8 = 4$ (L) · $17 - 1 = 16$ (Y) · $9 - 4 = 5$ (P) · $16 - 6 = 10$ (W) · $4 - 2 = 2$ (E) · $19 - 4 = 15$ (C) · $9 - 2 = 7$ (U) · $18 - 1 = 17$ (K) · $20 - 7 = 13$ (O) · $20 - 6 = 14$ (M) · $11 - 8 = 3$ (F) · $19 - 8 = 11$ (R)

Clue 4 (Skip counting): "WE FOUND A BRIGHT RED STRAP ON THE BRANCH"

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

Clue 5 (Missing addends): surviving statement is box 4 → Jake

$10 + \underline{\quad} = 16 = 6$ · $5 + \underline{\quad} = 13 = 8$ · $1 + \underline{\quad} = 6 = 5$ · $10 + \underline{\quad} = 20 = 10$ · $8 + \underline{\quad} = 19 = 11$ · $8 + \underline{\quad} = 20 = 12$ · $6 + \underline{\quad} = 8 = 2$ · $8 + \underline{\quad} = 9 = 1$ · $5 + \underline{\quad} = 8 = 3$ · $1 + \underline{\quad} = 10 = 9$ · $6 + \underline{\quad} = 13 = 7$