



The Great Treehouse Mystery

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

Detective: _____ Date: _____

Someone snuck into Treehouse Valley and took the master map! Work with the Jungle Patrol to solve the math clues and stop the bandit.

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 bandit is _____

Possible suspects

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

NAME	GEAR	BADGE	HANDEDNESS	HAIR COLOR	WEAKNESS
Aria	Zip Line	Golden Star	Right Handed	Red Hair	Snap Photo
Ruby	Flash Bomb	Golden Star	Left Handed	Red Hair	Loud Whistle
Lucy	Smoke Bomb	Silver Moon	Right Handed	Red Hair	Loud Whistle
Jack	Grappling Hook	Ruby Shield	Left Handed	Black Hair	Loud Whistle
Leo	Grappling Hook	Bronze Sun	Left Handed	Black Hair	Bright Light
Liam	Grappling Hook	Silver Moon	Left Handed	Black Hair	Bright Light
Finn	Flash Bomb	Emerald Gem	Right Handed	Brown Hair	Snap Photo
Emma	Smoke Bomb	Golden Star	Left Handed	Black Hair	Snap Photo
Max	Zip Line	Silver Moon	Left Handed	Red Hair	Snap Photo
Noah	Zip Line	Ruby Shield	Right Handed	Brown Hair	Loud Whistle
Zoe	Grappling Hook	Emerald Gem	Right Handed	Brown Hair	Loud Whistle
Isla	Zip Line	Bronze Sun	Left Handed	Black Hair	Bright Light
Nora	Flash Bomb	Emerald Gem	Left Handed	Red Hair	Bright Light
Ava	Zip Line	Ruby Shield	Left Handed	Black Hair	Bright Light
Maya	Flash Bomb	Bronze Sun	Left Handed	Black Hair	Bright Light
Owen	Grappling Hook	Ruby Shield	Left Handed	Black Hair	Bright Light
Chloe	Zip Line	Ruby Shield	Right Handed	Black Hair	Bright Light
Luke	Zip Line	Ruby Shield	Left Handed	Red Hair	Snap Photo
Eli	Zip Line	Golden Star	Right Handed	Black Hair	Snap Photo
Sam	Glider Wings	Silver Moon	Left Handed	Black Hair	Bright Light
Kai	Smoke Bomb	Silver Moon	Right Handed	Black Hair	Loud Whistle

CLUE 1



5

45 26 80 18 9 25 25 60 9 65 110 24 80 6 65 24 45

26 60 18 80 60 8 27 24 65 42 80 6 12 65

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Scratch space:

CLUE 2 Addition

We add up all the shiny camp pins we found near the treehouse.

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

T					T												T
15	20	4	8	18	15	11	4	17	17	17	3	8	3	13	4	10	15

											T
20	3	11	12	4	12	9	3	11	12	18	15

$11 + 4 = \square \rightarrow$ T	$5 + 5 = \square \rightarrow$ F	$2 + 1 = \square \rightarrow$ A	$3 + 1 = \square \rightarrow$ E
$9 + 4 = \square \rightarrow$ L	$7 + 2 = \square \rightarrow$ B	$6 + 11 = \square \rightarrow$ S	$3 + 8 = \square \rightarrow$ N
$9 + 9 = \square \rightarrow$ I	$4 + 8 = \square \rightarrow$ D	$6 + 2 = \square \rightarrow$ W	$13 + 7 = \square \rightarrow$ H

Scratch space:

CLUE 3

Subtraction

We take away the cracked mud tiles to see what is underneath.

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

F										F	F					
2	16	1	11	5	14	16	4	9	2	2	19	15	5	14	18	

13	8	15	7	14	5	17	15	7	14	5

$5 - 3 = \square \rightarrow \text{F}$

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

$18 - 7 = \square \rightarrow \text{D}$

$19 - 2 = \square \rightarrow \text{L}$

$18 - 9 = \square \rightarrow \text{O}$

$19 - 3 = \square \rightarrow \text{E}$

$20 - 1 = \square \rightarrow \text{W}$

$5 - 1 = \square \rightarrow \text{M}$

$9 - 2 = \square \rightarrow \text{G}$

$19 - 5 = \square \rightarrow \text{H}$

$17 - 9 = \square \rightarrow \text{R}$

$19 - 1 = \square \rightarrow \text{A}$

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

$20 - 5 = \square \rightarrow \text{I}$

$9 - 8 = \square \rightarrow \text{N}$

Scratch space:

CLUE 4 Place value

We look at tens and ones on the trail signs to read the hidden code.

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

B																		
77	49	63	96	72	81	63	54	41	97	63	48	20	32	22	66	87	63	27

27	81	57	48	96	57	66	57

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

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

What number has 2 tens and 7 ones? → **T**

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

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

What number has 7 tens and 2 ones? → **K**

What number has 4 tens and 9 ones? → **L**

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

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

What number has 5 tens and 4 ones? → **I**

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

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

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

What number has 5 tens and 7 ones? → **E**

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

What number has 4 tens and 1 one? → **R**

What number has 2 tens and 0 ones? → **F**

Scratch space:

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

We find the missing number of gems needed to open the secret door.

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:

$2 + \underline{\quad} = 7$

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

$4 + \underline{\quad} = 16$

$9 + \underline{\quad} = 10$

$9 + \underline{\quad} = 19$

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

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

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

$9 + \underline{\quad} = 18$

$2 + \underline{\quad} = 6$

$10 + \underline{\quad} = 18$

Step 2 - cross out the sentence with each answer:

1. The villain swung on the rope, then swiped the bronze sun.
2. The villain flashed a bright light, then stole the ruby shield.
3. The villain swung on the rope, then grabbed the silver moon.
4. The villain zipped down the wire, then swiped the bronze sun.
5. The villain glided over trees, then grabbed the silver moon.
6. The villain swung on the rope, then stole the ruby shield.
7. The villain flashed a bright light, then took the emerald gem.
8. The villain flashed a bright light, then snapped the golden star.
9. The villain dropped a smoke bomb, then grabbed the silver moon.
10. The villain dropped a smoke bomb, then snapped the golden star.
11. The villain swung on the rope, then snapped the golden star.
12. The villain zipped down the wire, then stole the ruby shield.

Answer Key

The Great Treehouse Mystery

Culprit: Liam

Grappling Hook · Silver Moon · Left Handed · Black Hair · Bright Light

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE VILLAIN DOES NOT HAVE A BRONZE SUN"

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

Clue 2 (Addition): "THE WITNESS SAW A LEFT HANDED BANDIT"

$11 + 4 = 15$ (T) · $5 + 5 = 10$ (F) · $2 + 1 = 3$ (A) · $3 + 1 = 4$ (E) · $9 + 4 = 13$ (L) · $7 + 2 = 9$ (B) · $6 + 11 = 17$ (S) · $3 + 8 = 11$ (N) · $9 + 9 = 18$ (I) · $4 + 8 = 12$ (D) · $6 + 2 = 8$ (W) · $13 + 7 = 20$ (H)

Clue 3 (Subtraction): "FEND THEM OFF WITH A BRIGHT LIGHT"

$5 - 3 = 2$ (F) · $9 - 4 = 5$ (T) · $18 - 7 = 11$ (D) · $19 - 2 = 17$ (L) · $18 - 9 = 9$ (O) · $19 - 3 = 16$ (E) · $20 - 1 = 19$ (W) · $5 - 1 = 4$ (M) · $9 - 2 = 7$ (G) · $19 - 5 = 14$ (H) · $17 - 9 = 8$ (R) · $19 - 1 = 18$ (A) · $19 - 6 = 13$ (B) · $20 - 5 = 15$ (I) · $9 - 8 = 1$ (N)

Clue 4 (Place value): "BLACK HAIR WAS FOUND AT THE SCENE"

What number has 7 tens and 7 ones? = 77 (B) · What number has 6 tens and 3 ones? = 63 (A) · What number has 2 tens and 7 ones? = 27 (T) · What number has 3 tens and 2 ones? = 32 (O) · What number has 8 tens and 1 one? = 81 (H) · What number has 7 tens and 2 ones? = 72 (K) · What number has 4 tens and 9 ones? = 49 (L) · What number has 2 tens and 2 ones? = 22 (U) · What number has 9 tens and 6 ones? = 96 (C) · What number has 5 tens and 4 ones? = 54 (I) · What number has 9 tens and 7 ones? = 97 (W) · What number has 6 tens and 6 ones? = 66 (N) · What number has 4 tens and 8 ones? = 48 (S) · What number has 5 tens and 7 ones? = 57 (E) · What number has 8 tens and 7 ones? = 87 (D) · What number has 4 tens and 1 one? = 41 (R) · What number has 2 tens and 0 ones? = 20 (F)

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

$2 + \underline{\quad} = 7 = 5$ · $4 + \underline{\quad} = 10 = 6$ · $4 + \underline{\quad} = 16 = 12$ · $9 + \underline{\quad} = 10 = 1$ · $9 + \underline{\quad} = 19 = 10$ · $2 + \underline{\quad} = 13 = 11$ · $7 + \underline{\quad} = 9 = 2$ · $10 + \underline{\quad} = 17 = 7$ · $9 + \underline{\quad} = 18 = 9$ · $2 + \underline{\quad} = 6 = 4$ · $10 + \underline{\quad} = 18 = 8$