The Great Treehouse Treasure Mystery

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

Detective: _____ **Date:** _____

Someone hid the golden jungle compass! The Treehouse Explorers need your help to crack the clues and catch the sneaky prankster before sunset.

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 Jungle Prankster is _____

Possible suspects

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

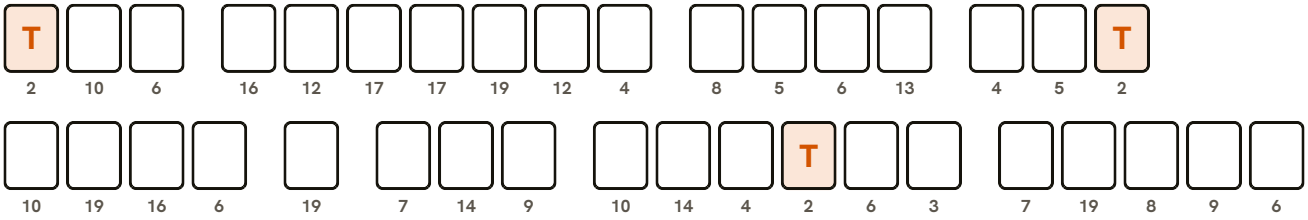
NAME	JUNGLE GADGET	EXPLORERS BADGE	WHISTLE STRAP	CAP COLOR	JUNGLE FEAR
Ivy Vines	Signal Mirror	Trail Blazer Badge	Left Strap	Sky Blue Cap	Scared Of Heights
Toby Trail	Jungle Compass	Trail Blazer Badge	Left Strap	Sky Blue Cap	Scared Of Heights
Sora Sky	Pocket Flashlight	Trail Blazer Badge	Right Strap	Sunny Yellow Cap	Scared Of Mud
Ella Echo	Jungle Compass	Trail Blazer Badge	Right Strap	Sky Blue Cap	Scared Of Heights
Zoe Zips	Grappling Hook	Bug Hunter Badge	Left Strap	Bright Red Cap	Scared Of Heights
Maya Maples	Rope Launcher	Map Reader Badge	Left Strap	Sky Blue Cap	Scared Of Bugs
Jack Jungle	Rope Launcher	Tree Climber Badge	Left Strap	Sky Blue Cap	Scared Of Heights
Daisy Vine	Rope Launcher	Tree Climber Badge	Right Strap	Bright Red Cap	Scared Of Mud
Mason Mud	Pocket Flashlight	Camp Chef Badge	Left Strap	Sunny Yellow Cap	Scared Of Heights
Ollie Oak	Rope Launcher	Trail Blazer Badge	Right Strap	Sky Blue Cap	Scared Of Heights
Finn Forest	Signal Mirror	Map Reader Badge	Right Strap	Sunny Yellow Cap	Scared Of Bugs
Hugo Hill	Rope Launcher	Tree Climber Badge	Left Strap	Bright Red Cap	Scared Of Bugs
Ruby Rivers	Jungle Compass	Trail Blazer Badge	Right Strap	Sunny Yellow Cap	Scared Of Heights
Gabe Grove	Jungle Compass	Camp Chef Badge	Left Strap	Bright Red Cap	Scared Of Bugs
Leo Leaf	Grappling Hook	Map Reader Badge	Right Strap	Sky Blue Cap	Scared Of Heights
Lily Lake	Jungle Compass	Trail Blazer Badge	Right Strap	Bright Red Cap	Scared Of Bugs
Clara Cliff	Jungle Compass	Bug Hunter Badge	Right Strap	Bright Red Cap	Scared Of Mud
Kai Moss	Rope Launcher	Bug Hunter Badge	Left Strap	Sky Blue Cap	Scared Of Heights
Piper Pine	Pocket Flashlight	Trail Blazer Badge	Left Strap	Sky Blue Cap	Scared Of Mud
Sammy Swift	Signal Mirror	Trail Blazer Badge	Left Strap	Bright Red Cap	Scared Of Mud
Cora Creek	Grappling Hook	Trail Blazer Badge	Left Strap	Sky Blue Cap	Scared Of Heights

make your own at mathcrackers.com

CLUE 1 Addition

Ranger Rick adds up the trail markers found on the path to unlock the first clue.

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



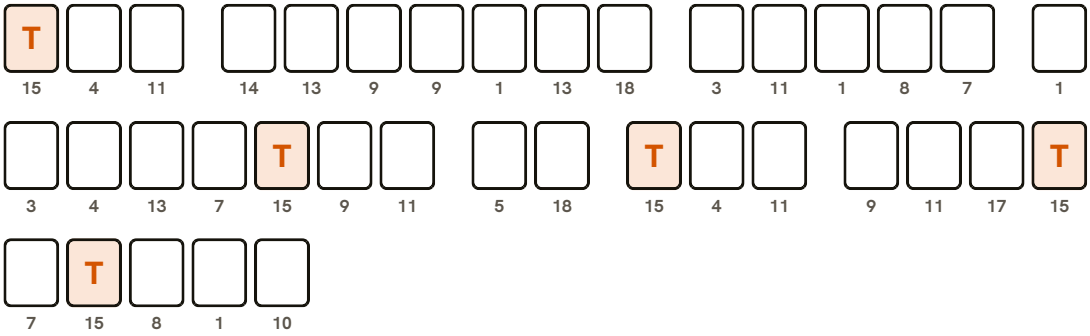
1 + 1 = ☐ → T	2 + 1 = ☐ → R	3 + 3 = ☐ → E	12 + 5 = ☐ → L
2 + 7 = ☐ → G	4 + 12 = ☐ → V	7 + 5 = ☐ → I	4 + 4 = ☐ → D
6 + 4 = ☐ → H	7 + 6 = ☐ → S	13 + 6 = ☐ → A	6 + 8 = ☐ → U
3 + 4 = ☐ → B	4 + 1 = ☐ → O	3 + 1 = ☐ → N	

Scratch space:

CLUE 2 Subtraction

The team counts how many snack bars are left in the pack to read the next note.

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



19 - 4 = ☐ → T	16 - 3 = ☐ → I	17 - 7 = ☐ → P	
16 - 7 = ☐ → L	20 - 2 = ☐ → N	10 - 3 = ☐ → S	
17 - 3 = ☐ → V	16 - 5 = ☐ → E	14 - 9 = ☐ → O	7 - 3 = ☐ → H
10 - 2 = ☐ → R	10 - 7 = ☐ → W	3 - 2 = ☐ → A	18 - 1 = ☐ → F

Scratch space:

CLUE 3 Skip counting

Maya skip counts the campfire logs by twos to decode the hidden message.

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

T																			
140	24	45	130	65	70	70	36	65	22	90	36	22	36	26	36	10			
120	90	25	28	140	24	45	140	36	70	70	140	25	26	45	90				

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 ☐ → R

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

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

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 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 ☐ → E

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → Y

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 ☐ → V

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 ☐ → L

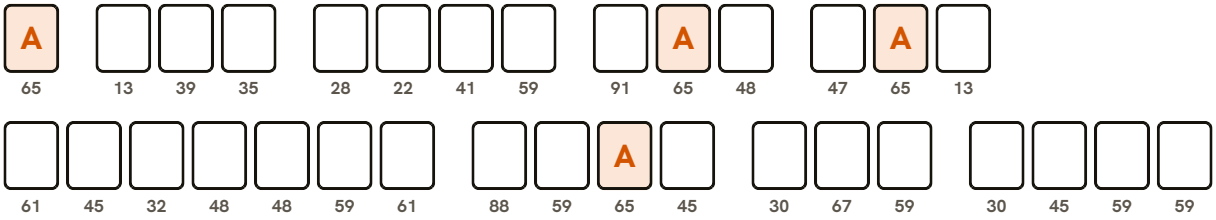
Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 [ ] → O

Scratch space:

CLUE 4 Place value

Leo looks at the tens and ones on the treehouse lock to reveal another hint.

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



What number has 6 tens and 5 ones? ☐ → A

What number has 2 tens and 8 ones? ☐ → B

What number has 4 tens and 8 ones? ☐ → P

What number has 9 tens and 1 one? ☐ → C

What number has 1 ten and 3 ones? ☐ → S

What number has 3 tens and 9 ones? ☐ → K

What number has 4 tens and 5 ones? ☐ → R

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

What number has 6 tens and 7 ones? ☐ → H

What number has 8 tens and 8 ones? ☐ → N

What number has 4 tens and 7 ones? ☐ → W

What number has 6 tens and 1 one? ☐ → D

What number has 3 tens and 0 ones? ☐ → T

What number has 3 tens and 5 ones? ☐ → Y

What number has 5 tens and 9 ones? ☐ → E

What number has 2 tens and 2 ones? ☐ → L

What number has 4 tens and 1 one? ☐ → U

Scratch space:

CLUE 5 Missing addends - the last clue

> Finn figures out how many more pinecones are needed to balance the scale.

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 + ___ = 13 ☐	10 + ___ = 12 ☐	1 + ___ = 12 ☐	2 + ___ = 9 ☐
4 + ___ = 9 ☐	8 + ___ = 17 ☐	2 + ___ = 8 ☐	9 + ___ = 13 ☐
9 + ___ = 10 ☐	7 + ___ = 19 ☐	3 + ___ = 11 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain fired a rope launcher, then pinned on a bug hunter badge.
2. The villain checked a jungle compass, then pinned on a trail blazer badge.
3. The villain flashed a signal mirror, then pinned on a trail blazer badge.
4. The villain shined a pocket flashlight, then pinned on a trail blazer badge.
5. The villain fired a rope launcher, then pinned on a camp chef badge.
6. The villain swung with a grappling hook, then pinned on a camp chef badge.
7. The villain flashed a signal mirror, then pinned on a camp chef badge.
8. The villain flashed a signal mirror, then pinned on a bug hunter badge.
9. The villain fired a rope launcher, then pinned on a trail blazer badge.
10. The villain fired a rope launcher, then pinned on a tree climber badge.
11. The villain swung with a grappling hook, then pinned on a trail blazer badge.
12. The villain swung with a grappling hook, then pinned on a bug hunter badge.

TEACHER / PARENT

Answer Key

The Great Treehouse Treasure Mystery

Culprit: Jack Jungle

Rope Launcher · Tree Climber Badge · Left Strap · Sky Blue Cap · Scared Of Heights

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

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE A BUG HUNTER BADGE"

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

Clue 2 (Subtraction): "THE VILLAIN WEARS A WHISTLE ON THE LEFT STRAP"

19 - 4 = 15 (T) · 16 - 3 = 13 (I) · 17 - 7 = 10 (P) · 16 - 7 = 9 (L) · 20 - 2 = 18 (N) · 10 - 3 = 7 (S) · 17 - 3 = 14 (V) · 16 - 5 = 11 (E) · 14 - 9 = 5 (O) · 7 - 3 = 4 (H) · 10 - 2 = 8 (R) · 10 - 7 = 3 (W) · 3 - 2 = 1 (A) · 18 - 1 = 17 (F)

Clue 3 (Skip counting): "THE VILLAIN RAN AWAY FROM THE TALL TOWER"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (M) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 = 24 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (W) · 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 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (O)

Clue 4 (Place value): "A SKY BLUE CAP WAS DROPPED NEAR THE TREE"

What number has 6 tens and 5 ones? = 65 (A) · What number has 8 tens and 8 ones? = 88 (N) · What number has 2 tens and 8 ones? = 28 (B) · What number has 4 tens and 7 ones? = 47 (W) · What number has 4 tens and 8 ones? = 48 (P) · What number has 6 tens and 1 one? = 61 (D) · What number has 9 tens and 1 one? = 91 (C) · What number has 3 tens and 0 ones? = 30 (T) · What number has 1 ten and 3 ones? = 13 (S) · What number has 3 tens and 5 ones? = 35 (Y) · What number has 3 tens and 9 ones? = 39 (K) · What number has 5 tens and 9 ones? = 59 (E) · What number has 4 tens and 5 ones? = 45 (R) · What number has 2 tens and 2 ones? = 22 (L) · What number has 3 tens and 2 ones? = 32 (O) · What number has 4 tens and 1 one? = 41 (U) · What number has 6 tens and 7 ones? = 67 (H)

Clue 5 (Missing addends): surviving statement is box 10 → Jack Jungle

10 + ___ = 13 = 3 · 10 + ___ = 12 = 2 · 1 + ___ = 12 = 11 · 2 + ___ = 9 = 7 · 4 + ___ = 9 = 5 · 8 + ___ = 17 = 9 · 2 + ___ = 8 = 6 · 9 + ___ = 13 = 4 · 9 + ___ = 10 = 1 · 7 + ___ = 19 = 12 · 3 + ___ = 11 = 8