The Great Suriname River Mystery

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

Detective: _____ **Date:** _____

Someone took the silver whistle from the park ranger hut! Search the rainforest and find out who did 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 Jungle Rascal is _____

Possible suspects

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

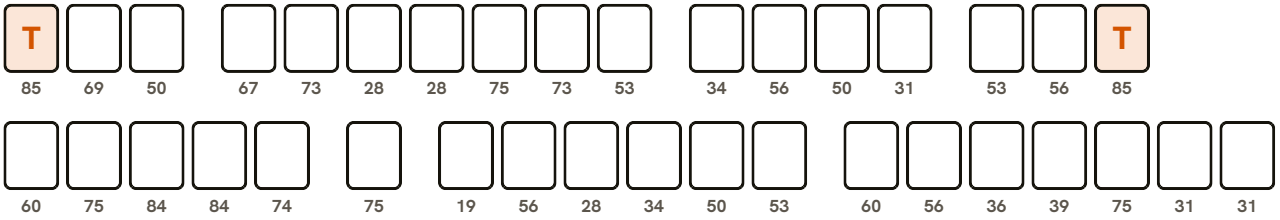
NAME	TRICK	GEAR	DOMINANT HAND	HEADWEAR	WEAKNESS
Hugo Hike	Jaguar Prowl	River Map	Left Handed	Leaf Helmet	Splash Water
Iguana Ian	Dart Cannon	Tree Net	Left Handed	Feather Cap	Bright Flash
Ranger Roy	Iguana Camo	Berry Pouch	Left Handed	Feather Cap	Bright Flash
Tia Tree	Iguana Camo	River Map	Right Handed	Feather Cap	Splash Water
Cleo Club	Dolphin Leap	Jungle Whistle	Right Handed	Leaf Helmet	Bright Flash
Ibis Iris	Ibis Glider	Berry Pouch	Right Handed	Leaf Helmet	Loud Bell
Froggy Fred	Jaguar Prowl	Berry Pouch	Left Handed	Feather Cap	Loud Bell
Benny Berry	Dart Cannon	River Map	Left Handed	Feather Cap	Splash Water
Ruby Red	Iguana Camo	Golden Compass	Left Handed	Feather Cap	Splash Water
Tara Trail	Jaguar Prowl	Jungle Whistle	Left Handed	Feather Cap	Splash Water
Dolphin Dave	Dart Cannon	Jungle Whistle	Left Handed	Feather Cap	Splash Water
Maya Moon	Dart Cannon	Jungle Whistle	Right Handed	Feather Cap	Splash Water
Gabe Green	Dart Cannon	Golden Compass	Right Handed	Feather Cap	Loud Bell
Finn Fish	Dolphin Leap	Golden Compass	Right Handed	Straw Hat	Loud Bell
Nico Net	Iguana Camo	Berry Pouch	Left Handed	Leaf Helmet	Splash Water
Leo Leaf	Dart Cannon	Berry Pouch	Right Handed	Leaf Helmet	Loud Bell
Jaguar Jack	Ibis Glider	Golden Compass	Left Handed	Leaf Helmet	Splash Water
Kira Kayak	Dolphin Leap	Berry Pouch	Left Handed	Feather Cap	Splash Water
Suri Sam	Dart Cannon	Tree Net	Left Handed	Straw Hat	Splash Water
Milo Mud	Dart Cannon	Tree Net	Left Handed	Feather Cap	Loud Bell
Otto Ocean	Dolphin Leap	Tree Net	Left Handed	Leaf Helmet	Splash Water

make your own at mathcrackers.com

CLUE 1 Subtraction

> We took away some fallen fruit to count what was left near the river.

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



112 - 27 = ☐ → T	71 - 2 = ☐ → H	101 - 17 = ☐ → R
65 - 31 = ☐ → D	84 - 10 = ☐ → Y	48 - 17 = ☐ → S
91 - 16 = ☐ → A	107 - 34 = ☐ → I	44 - 8 = ☐ → M
75 - 8 = ☐ → V	28 - 9 = ☐ → G	73 - 13 = ☐ → C
63 - 10 = ☐ → N	61 - 33 = ☐ → L	51 - 1 = ☐ → E
74 - 35 = ☐ → P	91 - 35 = ☐ → O	

Scratch space:

CLUE 2 Word problems

The park ranger solved story clues about animals seen on the trail.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L							D		D
27	26	24	23	29	40	20		26	

.

Scout lined up 9 rows of 3 juicy mangoes. How many juicy mangoes in all?

Answer: ☐ → **L**

There were 36 river stones. 10 were used up. How many river stones are left?

Answer: ☐ → **E**

Scout lined up 10 rows of 2 juicy mangoes. How many juicy mangoes in all?

Answer: ☐ → **N**

Scout found 5 tree frogs yesterday and 18 more today. How many tree frogs in all?

Answer: ☐ → **T**

Scout lined up 12 rows of 2 tree frogs. How many tree frogs in all?

Answer: ☐ → **F**

Scout lined up 4 rows of 10 tree frogs. How many tree frogs in all?

Answer: ☐ → **A**

There were 31 bright feathers. 2 were used up. How many bright feathers are left?

Answer: ☐ → **H**

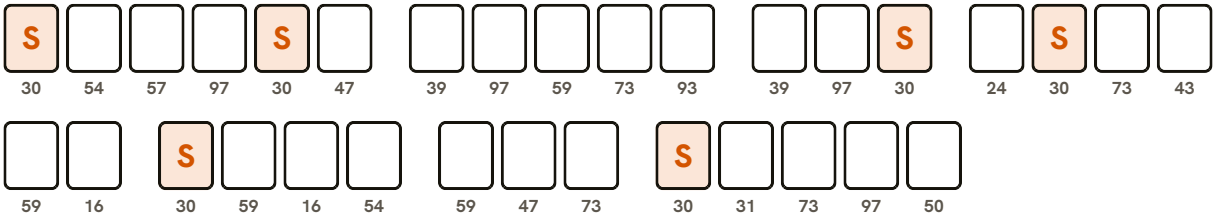
Scratch space:

CLUE 3

Place value

We checked the tens and ones on the jungle outpost gate code.

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



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

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

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

What number has 1 ten and 6 ones? ☐ → O

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

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

What number has 4 tens and 3 ones? ☐ → D

What number has 3 tens and 1 one? ☐ → N

What number has 5 tens and 7 ones? ☐ → L

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

What number has 9 tens and 7 ones? ☐ → A

What number has 5 tens and 0 ones? ☐ → K

What number has 2 tens and 4 ones? ☐ → U

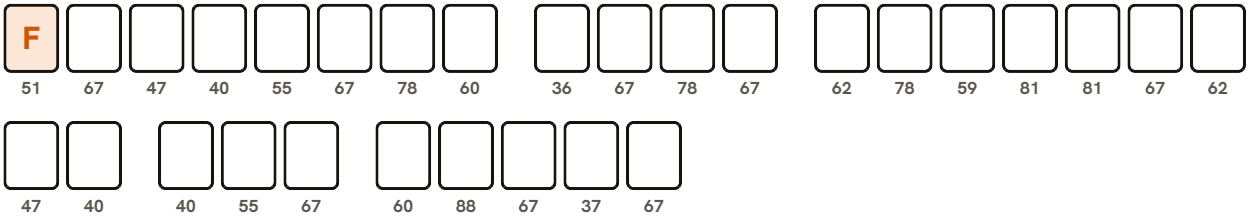
What number has 7 tens and 3 ones? ☐ → E

Scratch space:

CLUE 4 Addition

We put together all the animal tracks found in the mud.

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



33 + 18 = ☐ → F

24 + 35 = ☐ → O

57 + 31 = ☐ → C

10 + 26 = ☐ → W

41 + 21 = ☐ → D

15 + 32 = ☐ → A

32 + 28 = ☐ → S

22 + 15 = ☐ → N

40 + 38 = ☐ → R

26 + 14 = ☐ → T

35 + 32 = ☐ → E

31 + 50 = ☐ → P

35 + 20 = ☐ → H

Scratch space:

CLUE 5 Missing addends - the last clue

> We found how many missing seeds were needed to fill the pouch.

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 + ___ = 19 ☐	2 + ___ = 10 ☐	4 + ___ = 6 ☐	10 + ___ = 11 ☐
2 + ___ = 8 ☐	10 + ___ = 21 ☐	3 + ___ = 13 ☐	2 + ___ = 14 ☐
5 + ___ = 8 ☐	1 + ___ = 5 ☐	9 + ___ = 14 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain used an ibis glider, then dropped a river map.
2. The villain shot a dart cannon, then dropped a river map.
3. The villain made a dolphin leap, then lost a golden compass.
4. The villain turned on iguana camo, then blew a jungle whistle.
5. The villain used jaguar prowl, then tangled a tree net.
6. The villain used an ibis glider, then lost a golden compass.
7. The villain used jaguar prowl, then blew a jungle whistle.
8. The villain made a dolphin leap, then spilled a berry pouch.
9. The villain shot a dart cannon, then blew a jungle whistle.
10. The villain used jaguar prowl, then spilled a berry pouch.
11. The villain used an ibis glider, then tangled a tree net.
12. The villain made a dolphin leap, then blew a jungle whistle.

TEACHER / PARENT

Answer Key

The Great Suriname River Mystery

Culprit: Tara Trail

Jaguar Prowl · Jungle Whistle · Left Handed · Feather Cap · Splash Water

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE VILLAIN DOES NOT CARRY A GOLDEN COMPASS"

112 - 27 = 85 (T) · 71 - 2 = 69 (H) · 101 - 17 = 84 (R) · 65 - 31 = 34 (D) · 84 - 10 = 74 (Y) · 48 - 17 = 31 (S) · 91 - 16 = 75 (A) · 107 - 34 = 73 (I) · 44 - 8 = 36 (M) · 75 - 8 = 67 (V) · 28 - 9 = 19 (G) · 73 - 13 = 60 (C) · 63 - 10 = 53 (N) · 61 - 33 = 28 (L) · 51 - 1 = 50 (E) · 74 - 35 = 39 (P) · 91 - 35 = 56 (O)

Clue 2 (Word problems): "LEFT HANDED"

Scout lined up 9 rows of 3 juicy mangoes. How many juicy mangoes in all? = 27 (L) · There were 36 river stones. 10 were used up. How many river stones are left? = 26 (E) · Scout lined up 10 rows of 2 juicy mangoes. How many juicy mangoes in all? = 20 (N) · Scout found 5 tree frogs yesterday and 18 more today. How many tree frogs in all? = 23 (T) · Scout lined up 12 rows of 2 tree frogs. How many tree frogs in all? = 24 (F) · Scout lined up 4 rows of 10 tree frogs. How many tree frogs in all? = 40 (A) · There were 31 bright feathers. 2 were used up. How many bright feathers are left? = 29 (H)

Clue 3 (Place value): "SPLASH WATER WAS USED TO STOP THE SNEAK"

What number has 3 tens and 0 ones? = 30 (S) · What number has 3 tens and 9 ones? = 39 (W) · What number has 4 tens and 7 ones? = 47 (H) · What number has 1 ten and 6 ones? = 16 (O) · What number has 5 tens and 9 ones? = 59 (T) · What number has 5 tens and 4 ones? = 54 (P) · What number has 4 tens and 3 ones? = 43 (D) · What number has 3 tens and 1 one? = 31 (N) · What number has 5 tens and 7 ones? = 57 (L) · What number has 9 tens and 3 ones? = 93 (R) · What number has 9 tens and 7 ones? = 97 (A) · What number has 5 tens and 0 ones? = 50 (K) · What number has 2 tens and 4 ones? = 24 (U) · What number has 7 tens and 3 ones? = 73 (E)

Clue 4 (Addition): "FEATHERS WERE DROPPED AT THE SCENE"

33 + 18 = 51 (F) · 24 + 35 = 59 (O) · 57 + 31 = 88 (C) · 10 + 26 = 36 (W) · 41 + 21 = 62 (D) · 15 + 32 = 47 (A) · 32 + 28 = 60 (S) · 22 + 15 = 37 (N) · 40 + 38 = 78 (R) · 26 + 14 = 40 (T) · 35 + 32 = 67 (E) · 31 + 50 = 81 (P) · 35 + 20 = 55 (H)

Clue 5 (Missing addends): surviving statement is box 7 → Tara Trail

10 + ___ = 19 = 9 · 2 + ___ = 10 = 8 · 4 + ___ = 6 = 2 · 10 + ___ = 11 = 1 · 2 + ___ = 8 = 6 · 10 + ___ = 21 = 11 · 3 + ___ = 13 = 10 · 2 + ___ = 14 = 12 · 5 + ___ = 8 = 3 · 1 + ___ = 5 = 4 · 9 + ___ = 14 = 5