



The Secret Map Mystery

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

Detective: _____ Date: _____

Someone took the golden map from the camp cabin! We need to find the Snack Thief before sunset. Follow the clues to save the day!

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 Snack Thief is _____

Possible suspects

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

NAME	JUNGLE SKILL	SPECIAL TRICK	EYES	HAIR STYLE	WEAKNESS
Jax	jungle climbing	high jump	no glasses	straight hair	bubble water
Ben	map reading	night vision	wears glasses	curly hair	shiny badges
Joy	rope swinging	high jump	no glasses	spiky hair	banana peels
Pip	jungle climbing	super splash	wears glasses	straight hair	bubble water
Eli	fast running	high jump	wears glasses	straight hair	banana peels
Roy	loud whistling	berry blast	wears glasses	spiky hair	shiny badges
Rex	map reading	beast speak	wears glasses	straight hair	shiny badges
Meg	jungle climbing	high jump	wears glasses	straight hair	shiny badges
Dan	jungle climbing	super splash	wears glasses	curly hair	banana peels
Kai	loud whistling	beast speak	no glasses	straight hair	shiny badges
Leo	fast running	berry blast	wears glasses	straight hair	bubble water
Tom	jungle climbing	super splash	no glasses	straight hair	banana peels
Max	map reading	high jump	wears glasses	spiky hair	bubble water
Amy	loud whistling	super splash	no glasses	straight hair	shiny badges
Guy	map reading	beast speak	no glasses	spiky hair	banana peels
Ash	jungle climbing	high jump	no glasses	curly hair	shiny badges
Dot	fast running	beast speak	wears glasses	straight hair	banana peels
Zoe	jungle climbing	beast speak	wears glasses	straight hair	shiny badges
Fay	fast running	night vision	wears glasses	straight hair	shiny badges
Ivy	jungle climbing	berry blast	wears glasses	spiky hair	banana peels
Kip	map reading	night vision	wears glasses	straight hair	shiny badges

CLUE 1 Addition

We counted the footprint signs. We added three footprints from the mud and four from the grass. How many did we find?

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

T									T							T				
29	64	82	44	61	46	24	28	29	69	61	46	46	81	29	64	28	63	64		

85	68	76	72

$14 + 15 = \square \rightarrow \text{T}$	$45 + 31 = \square \rightarrow \text{M}$	$45 + 36 = \square \rightarrow \text{O}$
$30 + 34 = \square \rightarrow \text{H}$	$56 + 26 = \square \rightarrow \text{E}$	$38 + 25 = \square \rightarrow \text{G}$
$11 + 13 = \square \rightarrow \text{D}$	$22 + 47 = \square \rightarrow \text{C}$	$25 + 19 = \square \rightarrow \text{B}$
$55 + 30 = \square \rightarrow \text{J}$	$17 + 11 = \square \rightarrow \text{I}$	$28 + 33 = \square \rightarrow \text{A}$
$48 + 20 = \square \rightarrow \text{U}$	$32 + 14 = \square \rightarrow \text{N}$	$50 + 22 = \square \rightarrow \text{P}$

Scratch space:

CLUE 2

Subtraction

We had ten snack bars for our search. We ate six of them while looking. How many do we have left?

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

T									T										
42	34	84	81	69	47	66	80	42	34	71	84	52	85	84	47	46	81		

72	18	47	81	81	84	81	

$57 - 15 = \square \rightarrow \boxed{\text{T}}$

$79 - 32 = \square \rightarrow \boxed{\text{A}}$

$96 - 27 = \square \rightarrow \boxed{\text{N}}$

$102 - 17 = \square \rightarrow \boxed{\text{W}}$

$91 - 19 = \square \rightarrow \boxed{\text{G}}$

$77 - 31 = \square \rightarrow \boxed{\text{R}}$

$64 - 12 = \square \rightarrow \boxed{\text{F}}$

$57 - 23 = \square \rightarrow \boxed{\text{H}}$

$82 - 1 = \square \rightarrow \boxed{\text{S}}$

$112 - 32 = \square \rightarrow \boxed{\text{K}}$

$102 - 36 = \square \rightarrow \boxed{\text{C}}$

$82 - 11 = \square \rightarrow \boxed{\text{I}}$

$85 - 1 = \square \rightarrow \boxed{\text{E}}$

$39 - 21 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 3 Place value

The lock box has a code. It has two tens and five ones. What number opens the box?

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

S								S										S
77	43	61	46	13	45	83	88	77	89	16	35	55	79	61	45	14	13	77

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

What number has 8 tens and 3 ones? → **O**

What number has 4 tens and 3 ones? → **C**

What number has 3 tens and 5 ones? → **N**

What number has 1 ten and 3 ones? → **E**

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

What number has 1 ten and 4 ones? → **G**

What number has 4 tens and 6 ones? → **R**

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

What number has 6 tens and 1 one? → **A**

What number has 5 tens and 5 ones? → **Y**

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

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

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

Scratch space:

CLUE 4 Skip counting

We followed the trail of glowing stones. They were placed in a pattern of five then ten then fifteen. What is the next number?

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

F																
16	80	120	90	21	45	55	80	80	35	12	12	70	15	25	70	35
45	36	42	90	42												

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **F**

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

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **M**

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

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

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

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

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

Scratch space:

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

We need eight gold coins to cross the bridge. We only have five coins. How many more do we need to find?

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:

$10 + \underline{\quad} = 12$

$7 + \underline{\quad} = 11$

$5 + \underline{\quad} = 16$

$2 + \underline{\quad} = 12$

$5 + \underline{\quad} = 17$

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

$3 + \underline{\quad} = 8$

$5 + \underline{\quad} = 14$

$2 + \underline{\quad} = 5$

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

$4 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain climbs the tallest jungle trees, then jumps over the high bushes.
2. The villain reads the secret map, then talks to the jungle birds.
3. The villain climbs the tallest jungle trees, then sees in the dark.
4. The villain reads the secret map, then sees in the dark.
5. The villain swings on wild vines, then makes a huge water splash.
6. The villain runs fast down the trail, then sees in the dark.
7. The villain reads the secret map, then makes a huge water splash.
8. The villain whistles a loud song, then makes a huge water splash.
9. The villain reads the secret map, then throws a messy berry blast.
10. The villain swings on wild vines, then talks to the jungle birds.
11. The villain climbs the tallest jungle trees, then talks to the jungle birds.
12. The villain whistles a loud song, then talks to the jungle birds.

Answer Key

The Secret Map Mystery

Culprit: Fay

fast running · night vision · wears glasses · straight hair · shiny badges

Trail: Start 21 → Clue 1 15 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT CANNOT HIGH JUMP"

$14 + 15 = 29$ (T) · $45 + 31 = 76$ (M) · $45 + 36 = 81$ (O) · $30 + 34 = 64$ (H) · $56 + 26 = 82$ (E) · $38 + 25 = 63$ (G) · $11 + 13 = 24$ (D) · $22 + 47 = 69$ (C) · $25 + 19 = 44$ (B) · $55 + 30 = 85$ (J) · $17 + 11 = 28$ (I) · $28 + 33 = 61$ (A) · $48 + 20 = 68$ (U) · $32 + 14 = 46$ (N) · $50 + 22 = 72$ (P)

Clue 2 (Subtraction): "THE SNACK THIEF WEARS GLASSES"

$57 - 15 = 42$ (T) · $79 - 32 = 47$ (A) · $96 - 27 = 69$ (N) · $102 - 17 = 85$ (W) · $91 - 19 = 72$ (G) · $77 - 31 = 46$ (R) · $64 - 12 = 52$ (F) · $57 - 23 = 34$ (H) · $82 - 1 = 81$ (S) · $112 - 32 = 80$ (K) · $102 - 36 = 66$ (C) · $82 - 11 = 71$ (I) · $85 - 1 = 84$ (E) · $39 - 21 = 18$ (L)

Clue 3 (Place value): "SCARED OF SHINY BADGES"

What number has 7 tens and 7 ones? = 77 (S) · What number has 8 tens and 3 ones? = 83 (O) · What number has 4 tens and 3 ones? = 43 (C) · What number has 3 tens and 5 ones? = 35 (N) · What number has 1 ten and 3 ones? = 13 (E) · What number has 1 ten and 6 ones? = 16 (I) · What number has 1 ten and 4 ones? = 14 (G) · What number has 4 tens and 6 ones? = 46 (R) · What number has 8 tens and 8 ones? = 88 (F) · What number has 6 tens and 1 one? = 61 (A) · What number has 5 tens and 5 ones? = 55 (Y) · What number has 7 tens and 9 ones? = 79 (B) · What number has 4 tens and 5 ones? = 45 (D) · What number has 8 tens and 9 ones? = 89 (H)

Clue 4 (Skip counting): "FOUND SMOOTH HAIR AT SCENE"

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

Clue 5 (Missing addends): surviving statement is box 6 → Fay

$10 + \underline{\quad} = 12 = 2$ · $7 + \underline{\quad} = 11 = 4$ · $5 + \underline{\quad} = 16 = 11$ · $2 + \underline{\quad} = 12 = 10$ · $5 + \underline{\quad} = 17 = 12$ · $8 + \underline{\quad} = 9 = 1$ · $3 + \underline{\quad} = 8 = 5$ · $5 + \underline{\quad} = 14 = 9$ · $2 + \underline{\quad} = 5 = 3$ · $6 + \underline{\quad} = 13 = 7$ · $4 + \underline{\quad} = 12 = 8$