



The Secret of Spy Island

Grade 3 math · Multiplication, Subtraction, Addition, Place value, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

The Golden Compass has been stolen from the Spy Island Camp vault! The camp director needs your help. Solve the puzzles, gather the clues, and help the junior detectives find the rogue agent!

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 rogue agent is _____

Possible suspects

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

NAME	SIGNATURE GADGET	BACKUP TOOL	WRITING STYLE	HAIR EVIDENCE	FENDED OFF BY
Dash	jetpack	laser watch	left-handed writer	spiky blue hair	squeaky shoes
Penny	disguise kit	decoder ring	right-handed writer	bright orange hair	tickle feathers
Luna	night vision	spy camera	right-handed writer	spiky blue hair	squeaky shoes
Hugo	grappling hook	laser watch	left-handed writer	neon green hair	water balloons
Eli	smoke bomb	zipline belt	right-handed writer	bright orange hair	tickle feathers
Maya	night vision	spy camera	right-handed writer	bright orange hair	tickle feathers
Piper	disguise kit	zipline belt	right-handed writer	neon green hair	tickle feathers
Nova	disguise kit	laser watch	left-handed writer	neon green hair	tickle feathers
Chase	smoke bomb	zipline belt	right-handed writer	spiky blue hair	tickle feathers
Sadie	disguise kit	zipline belt	right-handed writer	spiky blue hair	tickle feathers
Iris	night vision	zipline belt	left-handed writer	spiky blue hair	tickle feathers
Toby	jetpack	decoder ring	right-handed writer	neon green hair	tickle feathers
Ruby	disguise kit	mini drone	right-handed writer	spiky blue hair	squeaky shoes
Max	grappling hook	decoder ring	right-handed writer	spiky blue hair	water balloons
Finn	night vision	decoder ring	left-handed writer	spiky blue hair	squeaky shoes
Zoe	smoke bomb	laser watch	left-handed writer	bright orange hair	tickle feathers
Skye	disguise kit	zipline belt	left-handed writer	spiky blue hair	tickle feathers
Jacks	jetpack	laser watch	right-handed writer	spiky blue hair	tickle feathers
Clara	night vision	zipline belt	right-handed writer	spiky blue hair	tickle feathers
Zane	jetpack	mini drone	right-handed writer	spiky blue hair	tickle feathers
Leo	jetpack	laser watch	right-handed writer	spiky blue hair	squeaky shoes

CLUE 1

Multiplication facts (1-12)

We find a stash of gear boxes lined up in neat rows. To count them all quickly, we multiply the rows by the boxes in each row. The total points us to our first lead.

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

T																T
33	10	42	100	121	40	40	49	121	11	64	5	42	66	11	5	33
												T				
10	49	100	42	49	40	49	66	42	6	15	49	33	63	10		

$3 \times 11 = \square \rightarrow \boxed{\text{T}}$

$3 \times 2 = \square \rightarrow \boxed{\text{R}}$

$11 \times 11 = \square \rightarrow \boxed{\text{I}}$

$1 \times 5 = \square \rightarrow \boxed{\text{O}}$

$1 \times 10 = \square \rightarrow \boxed{\text{H}}$

$9 \times 7 = \square \rightarrow \boxed{\text{C}}$

$6 \times 11 = \square \rightarrow \boxed{\text{S}}$

$7 \times 6 = \square \rightarrow \boxed{\text{E}}$

$10 \times 10 = \square \rightarrow \boxed{\text{V}}$

$8 \times 8 = \square \rightarrow \boxed{\text{D}}$

$3 \times 5 = \square \rightarrow \boxed{\text{W}}$

$10 \times 4 = \square \rightarrow \boxed{\text{L}}$

$7 \times 7 = \square \rightarrow \boxed{\text{A}}$

$11 \times 1 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 2

Subtraction

The suspect dropped a battery pack. We subtract the leftover power from the starting power to see how long they ran. The difference reveals a secret message.

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

T									T				T		
308	514	183	721	521	721	284	183	259	308	159	893	476	308	183	113

		T				T		T						T	
758	476	308	183	159	671	308	514	308	514	183	893	671	587	514	308

514	113	758	490

$599 - 291 = \square \rightarrow \boxed{\text{T}}$

$701 - 225 = \square \rightarrow \boxed{\text{O}}$

$949 - 278 = \square \rightarrow \boxed{\text{I}}$

$369 - 186 = \square \rightarrow \boxed{\text{E}}$

$640 - 381 = \square \rightarrow \boxed{\text{C}}$

$1005 - 284 = \square \rightarrow \boxed{\text{S}}$

$668 - 154 = \square \rightarrow \boxed{\text{H}}$

$500 - 387 = \square \rightarrow \boxed{\text{A}}$

$536 - 252 = \square \rightarrow \boxed{\text{P}}$

$1171 - 278 = \square \rightarrow \boxed{\text{R}}$

$864 - 277 = \square \rightarrow \boxed{\text{G}}$

$744 - 254 = \square \rightarrow \boxed{\text{D}}$

$984 - 226 = \square \rightarrow \boxed{\text{N}}$

$409 - 250 = \square \rightarrow \boxed{\text{W}}$

$776 - 255 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 3 Addition

Let us total up the footprints found in the mud. We add the prints near the gate to the prints near the wall. The sum unlocks a hidden clue file.

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

W																	
927	923	663	311	908	382	923	687	860	587	923	610	370	383	383	908	370	335

W																	
927	370	860	587	860	370	311	784	383	923	967	923	908	860	587	923	382	663

$523 + 404 = \square \rightarrow \mathbf{W}$	$254 + 333 = \square \rightarrow \mathbf{H}$	$244 + 366 = \square \rightarrow \mathbf{V}$
$208 + 174 = \square \rightarrow \mathbf{R}$	$447 + 216 = \square \rightarrow \mathbf{S}$	$149 + 221 = \square \rightarrow \mathbf{I}$
$296 + 671 = \square \rightarrow \mathbf{F}$	$356 + 428 = \square \rightarrow \mathbf{K}$	$520 + 340 = \square \rightarrow \mathbf{T}$
$238 + 145 = \square \rightarrow \mathbf{L}$	$129 + 206 = \square \rightarrow \mathbf{N}$	$445 + 478 = \square \rightarrow \mathbf{E}$
$487 + 421 = \square \rightarrow \mathbf{A}$	$430 + 257 = \square \rightarrow \mathbf{D}$	$146 + 165 = \square \rightarrow \mathbf{C}$

Scratch space:

CLUE 4 Place value

A digital keypad blocks the secret desk. We look at the digits in the hundreds and tens places to crack the login. The open screen shows a suspect trait.

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

W																	
5000	80	300	10	900	60	800	6000	200	8000	7000	30	700	40	900	80		
600	50	8000	20	50	500	500	600	80	1000	50	900	40	500	800	10	10	20

What is the value of the 5 in 5,001? → **W**

What is the value of the 3 in 7,534? → **Y**

What is the value of the 6 in 683? → **H**

What is the value of the 2 in 8,254? → **P**

What is the value of the 1 in 3,412? → **O**

What is the value of the 8 in 5,482? → **E**

What is the value of the 5 in 1,518? → **T**

What is the value of the 6 in 168? → **N**

What is the value of the 5 in 7,857? → **A**

What is the value of the 4 in 745? → **L**

What is the value of the 1 in 51,059? → **V**

What is the value of the 6 in 6,939? → **S**

What is the value of the 8 in 2,841? → **D**

What is the value of the 7 in 7,088? → **K**

What is the value of the 3 in 5,389? → **F**

What is the value of the 2 in 729? → **R**

What is the value of the 7 in 790? → **B**

What is the value of the 9 in 1,980? → **U**

What is the value of the 8 in 8,211? → **I**

Scratch space:

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

We find a weight scale used for packing gear. Some spy tools are missing from the scale. We find the missing number to balance it and 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:

$1 + \underline{\quad} = 11$

$4 + \underline{\quad} = 8$

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

$5 + \underline{\quad} = 10$

$1 + \underline{\quad} = 13$

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

$6 + \underline{\quad} = 9$

$9 + \underline{\quad} = 11$

$2 + \underline{\quad} = 11$

$8 + \underline{\quad} = 14$

$3 + \underline{\quad} = 11$

Step 2 - cross out the sentence with each answer:

1. The villain swaps clothes with a mannequin, then zips down the cable.
2. The villain swaps clothes with a mannequin, then snaps a quick photo.
3. The villain vanishes in a puff of smoke, then snaps a quick photo.
4. The villain zooms over the fence, then flies a small camera.
5. The villain vanishes in a puff of smoke, then cuts the vault lock.
6. The villain sneaks through the dark, then cuts the vault lock.
7. The villain swings across the courtyard, then cuts the vault lock.
8. The villain zooms over the fence, then snaps a quick photo.
9. The villain swings across the courtyard, then snaps a quick photo.
10. The villain sneaks through the dark, then zips down the cable.
11. The villain vanishes in a puff of smoke, then zips down the cable.
12. The villain zooms over the fence, then cuts the vault lock.

Answer Key

The Secret of Spy Island

Culprit: Chase

smoke bomb · zipline belt · right-handed writer · spiky blue hair · tickle feathers

Trail: Start 21 → Clue 1 15 → Clue 2 12 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT HAVE A LASER WATCH"

$3 \times 11 = 33$ (T) · $3 \times 2 = 6$ (R) · $11 \times 11 = 121$ (I) · $1 \times 5 = 5$ (O) · $1 \times 10 = 10$ (H) · $9 \times 7 = 63$ (C) · $6 \times 11 = 66$ (S) · $7 \times 6 = 42$ (E) · $10 \times 10 = 100$ (V) · $8 \times 8 = 64$ (D) · $3 \times 5 = 15$ (W) · $10 \times 4 = 40$ (L) · $7 \times 7 = 49$ (A) · $11 \times 1 = 11$ (N)

Clue 2 (Subtraction): "THE SUSPECT WROTE A NOTE WITH THE RIGHT HAND"

$599 - 291 = 308$ (T) · $701 - 225 = 476$ (O) · $949 - 278 = 671$ (I) · $369 - 186 = 183$ (E) · $640 - 381 = 259$ (C) · $1005 - 284 = 721$ (S) · $668 - 154 = 514$ (H) · $500 - 387 = 113$ (A) · $536 - 252 = 284$ (P) · $1171 - 278 = 893$ (R) · $864 - 277 = 587$ (G) · $744 - 254 = 490$ (D) · $984 - 226 = 758$ (N) · $409 - 250 = 159$ (W) · $776 - 255 = 521$ (U)

Clue 3 (Addition): "WE SCARED THE VILLAIN WITH TICKLE FEATHERS"

$523 + 404 = 927$ (W) · $254 + 333 = 587$ (H) · $244 + 366 = 610$ (V) · $208 + 174 = 382$ (R) · $447 + 216 = 663$ (S) · $149 + 221 = 370$ (I) · $296 + 671 = 967$ (F) · $356 + 428 = 784$ (K) · $520 + 340 = 860$ (T) · $238 + 145 = 383$ (L) · $129 + 206 = 335$ (N) · $445 + 478 = 923$ (E) · $487 + 421 = 908$ (A) · $430 + 257 = 687$ (D) · $146 + 165 = 311$ (C)

Clue 4 (Place value): "WE FOUND SPIKY BLUE HAIR AT THE VAULT DOOR"

What is the value of the 5 in 5,001? = 5000 (W) · What is the value of the 3 in 7,534? = 30 (Y) · What is the value of the 6 in 683? = 600 (H) · What is the value of the 2 in 8,254? = 200 (P) · What is the value of the 1 in 3,412? = 10 (O) · What is the value of the 8 in 5,482? = 80 (E) · What is the value of the 5 in 1,518? = 500 (T) · What is the value of the 6 in 168? = 60 (N) · What is the value of the 5 in 7,857? = 50 (A) · What is the value of the 4 in 745? = 40 (L) · What is the value of the 1 in 51,059? = 1000 (V) · What is the value of the 6 in 6,939? = 6000 (S) · What is the value of the 8 in 2,841? = 800 (D) · What is the value of the 7 in 7,088? = 7000 (K) · What is the value of the 3 in 5,389? = 300 (F) · What is the value of the 2 in 729? = 20 (R) · What is the value of the 7 in 790? = 700 (B) · What is the value of the 9 in 1,980? = 900 (U) · What is the value of the 8 in 8,211? = 8000 (I)

Clue 5 (Missing addends): surviving statement is box 11 → Chase

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