



The Spy Island Mystery

Grade 6 math · Multiplication, Place value, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ Date: _____

A mysterious thief sneaked into the Spy Island vault and swiped the Golden Decoder! The Stealth Squad needs your help to crack the codes and catch the rogue cadet before they escape the island.

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 cadet is _____

Possible suspects

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

NAME	PRIMARY GEAR	SUIT MOD	STANCE	HAIR DYE	DISTRACTION
Mac Gyver	Hologram Belt	Spy Drone	Right-handed writer	Lime Green Hair	Allergic to feathers
Sally Sparrow	Grapple Glove	Glider Cape	Right-handed writer	Neon Blue Hair	Fear of frogs
Lara Croft	Jet Boots	Camo Cloak	Left-handed writer	Lime Green Hair	Allergic to feathers
Gwen Tennyson	Jet Boots	Turbo Thrusters	Right-handed writer	Bright Orange Hair	Allergic to feathers
Indy Jones	Sonar Visor	Glider Cape	Left-handed writer	Lime Green Hair	Allergic to feathers
Joe Hardy	Sonar Visor	Sticky Boots	Left-handed writer	Bright Orange Hair	Allergic to feathers
Cody Martin	Sonar Visor	Camo Cloak	Left-handed writer	Lime Green Hair	Allergic to feathers
Tucker Foley	Hologram Belt	Sticky Boots	Left-handed writer	Bright Orange Hair	Loves bubblegum
Sam Manson	Grapple Glove	Glider Cape	Left-handed writer	Lime Green Hair	Allergic to feathers
Nancy Drew	Grapple Glove	Turbo Thrusters	Left-handed writer	Lime Green Hair	Allergic to feathers
Tintin Snowy	Grapple Glove	Sticky Boots	Right-handed writer	Neon Blue Hair	Allergic to feathers
Alex Rider	Laser Watch	Spy Drone	Left-handed writer	Lime Green Hair	Loves bubblegum
Carmen Crux	Sonar Visor	Spy Drone	Left-handed writer	Lime Green Hair	Loves bubblegum
Zack Martin	Sonar Visor	Spy Drone	Right-handed writer	Lime Green Hair	Loves bubblegum
Danny Fenton	Jet Boots	Spy Drone	Right-handed writer	Bright Orange Hair	Allergic to feathers
John Watson	Hologram Belt	Spy Drone	Left-handed writer	Lime Green Hair	Fear of frogs
Penny Gadget	Laser Watch	Turbo Thrusters	Left-handed writer	Lime Green Hair	Allergic to feathers
Leo Valdez	Grapple Glove	Sticky Boots	Right-handed writer	Bright Orange Hair	Allergic to feathers
Sherlock Holmes	Sonar Visor	Spy Drone	Right-handed writer	Bright Orange Hair	Loves bubblegum
Ron Stop	Hologram Belt	Camo Cloak	Right-handed writer	Bright Orange Hair	Allergic to feathers
Cody Banks	Hologram Belt	Turbo Thrusters	Right-handed writer	Neon Blue Hair	Allergic to feathers

CLUE 1

Multiplication facts (1-12)

The villain left the training room in a big mess. We found boxes of spy gear stacked in equal rows. Let's multiply the rows to find how many gadgets are missing!

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

T 33	80	24	T 33	3	96	25	24	T 33	15	88	24	16	40	88	T 33	44	16	24
T 33	44	96	77	88	T 33	80	96	44	16	T 33	24	96	16					

$3 \times 11 = \square \rightarrow \text{T}$	$11 \times 7 = \square \rightarrow \text{B}$	$2 \times 8 = \square \rightarrow \text{S}$
$10 \times 8 = \square \rightarrow \text{H}$	$11 \times 4 = \square \rightarrow \text{U}$	$5 \times 8 = \square \rightarrow \text{N}$
$3 \times 5 = \square \rightarrow \text{D}$	$12 \times 8 = \square \rightarrow \text{R}$	$5 \times 5 = \square \rightarrow \text{G}$
$11 \times 8 = \square \rightarrow \text{O}$	$3 \times 1 = \square \rightarrow \text{A}$	$2 \times 12 = \square \rightarrow \text{E}$

Scratch space:

CLUE 2

A locked keypad stops us from entering the control room. Each digit on the screen has a special place value. We must look at the tens and hundreds places to crack the code!

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

The diagram consists of two rows of boxes, each with a number underneath it.

Top Row:

- Box 1: Shaded orange, contains 'T'. Number below: 30
- Box 2: White, empty. Number below: 1000
- Box 3: White, empty. Number below: 300
- Box 4: White, empty. Number below: 4000
- Box 5: White, empty. Number below: 500
- Box 6: White, empty. Number below: 90
- Box 7: Shaded orange, contains 'T'. Number below: 30
- Box 8: White, empty. Number below: 90
- Box 9: White, empty. Number below: 5000
- Box 10: White, empty. Number below: 800
- Box 11: White, empty. Number below: 4000
- Box 12: White, empty. Number below: 60
- Box 13: White, empty. Number below: 6000
- Box 14: White, empty. Number below: 700
- Box 15: White, empty. Number below: 300
- Box 16: White, empty. Number below: 50
- Box 17: Shaded orange, contains 'T'. Number below: 30

Bottom Row:

- Box 1: White, empty. Number below: 1000
- Box 2: White, empty. Number below: 60
- Box 3: White, empty. Number below: 5000
- Box 4: White, empty. Number below: 600
- Box 5: White, empty. Number below: 300
- Box 6: White, empty. Number below: 600
- Box 7: White, empty. Number below: 80
- Box 8: White, empty. Number below: 5000
- Box 9: White, empty. Number below: 700
- Box 10: White, empty. Number below: 8000

What is the value of the 3 in 25,530? → **T**

What is the value of the 8 in 46,285? → ☐

What is the value of the 8 in 48,246? → **Y**

What is the value of the 9 in 50,290? →

What is the value of the 7 in 926,729?	→	L
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What is the value of the 5 in 917,757?	→	F
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What is the value of the 1 in 831,223? → **H**

What is the value of the 6 in 118,620? → **D**

What is the value of the 5 in 75,010? → **N**

What is the value of the 3 in 59,316? → **E**

What is the value of the 8 in 75,827? → **G**

What is the value of the 6 in 20,364?	→	A
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What is the value of the 5 in 106,521? → **R**

What is the value of the 4 in 384,552? → **W**

What is the value of the 6 in 96,801? → **S**

Scratch space:

CLUE 3

We found footprints scattered in different parts of the yard. If we add all the sets of prints together, we can map the villain's escape path!

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

Diagram illustrating a sequence of numbers arranged in two rows. The top row contains 18 boxes, with the first and last boxes highlighted in orange and labeled 'T'. The bottom row contains 8 boxes, with the fourth box highlighted in orange and labeled 'T'.

Top row numbers (from left to right): 6483, 6252, 9122, 9833, 4461, 4249, 4249, 5067, 4461, 4821, 8573, 4821, 9122, 9122, 5464, 9122, 4929, 5067, 6483.

Bottom row numbers (from left to right): 4584, 9122, 5067, 6483, 6252, 9122, 3060, 8573.

$$2790 + 3693 = \boxed{} \rightarrow \boxed{\text{T}}$$

$1453 + 3008 = \boxed{} \rightarrow \boxed{\text{I}}$

$$6214 + 2908 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3162 + 2302 = \boxed{} \rightarrow \boxed{\mathbf{Z}}$$

$$3191 + 3061 = \boxed{} \rightarrow \boxed{\text{H}}$$

$1021 + 2039 = \boxed{} \rightarrow \boxed{\text{R}}$

$$3260 + 1561 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$4947 + 3626 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2118 + 2949 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$6466 + 3367 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$2238 + 2011 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$1616 + 2968 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$3441 + 1488 = \boxed{} \rightarrow \boxed{\text{D}}$$

Scratch space:

CLUE 4

Subtraction

The inventory sheet says we started with a full crate of laser pens. Some are gone now. We need to subtract the remaining pens to see how many the thief stole!

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

W														
2483	1568	3402	2694	5836	2488	4309	5255	2150	7673	1568	1289	2257	1568	2488

6445	5254	2150	2257	2575	3766	2257	5254	2488	4309	2575

$7159 - 4676 = \square \rightarrow \boxed{\text{W}}$

$8739 - 2294 = \square \rightarrow \boxed{\text{H}}$

$8495 - 4186 = \square \rightarrow \boxed{\text{D}}$

$11992 - 4319 = \square \rightarrow \boxed{\text{M}}$

$5857 - 3163 = \square \rightarrow \boxed{\text{O}}$

$7293 - 3527 = \square \rightarrow \boxed{\text{T}}$

$6200 - 364 = \square \rightarrow \boxed{\text{U}}$

$1682 - 393 = \square \rightarrow \boxed{\text{G}}$

$8075 - 2820 = \square \rightarrow \boxed{\text{L}}$

$6381 - 3893 = \square \rightarrow \boxed{\text{N}}$

$4725 - 2150 = \square \rightarrow \boxed{\text{S}}$

$8937 - 3683 = \square \rightarrow \boxed{\text{A}}$

$3533 - 131 = \square \rightarrow \boxed{\text{F}}$

$5216 - 2959 = \square \rightarrow \boxed{\text{R}}$

$1967 - 399 = \square \rightarrow \boxed{\text{E}}$

$3152 - 1002 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

We recovered a stack of secret files, but they are scrambled. If we divide the papers equally among our team, we can decode them much faster!

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:

$36 \div 9 = \boxed{}$

$56 \div 7 = \boxed{}$

$5 \div 5 = \boxed{}$

$40 \div 8 = \boxed{}$

$15 \div 5 = \boxed{}$

$12 \div 2 = \boxed{}$

$108 \div 12 = \boxed{}$

$88 \div 8 = \boxed{}$

$21 \div 3 = \boxed{}$

$96 \div 8 = \boxed{}$

$10 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain spots the secret trapdoors with a sonar visor, then disappears through a hidden ceiling hatch.
2. The villain zooms past the guard with jet boots, then disappears through a hidden ceiling hatch.
3. The villain beams a path forward using a laser watch, then escapes in a stealth mini-sub.
4. The villain spots the secret trapdoors with a sonar visor, then glides out the window with a wing-suit.
5. The villain beams a path forward using a laser watch, then glides out the window with a wing-suit.
6. The villain beams a path forward using a laser watch, then leaves a trail of orange spy dust.
7. The villain zooms past the guard with jet boots, then escapes in a stealth mini-sub.
8. The villain uses a grapple glove to climb the wall, then glides out the window with a wing-suit.
9. The villain zooms past the guard with jet boots, then glides out the window with a wing-suit.
10. The villain beams a path forward using a laser watch, then disappears through a hidden ceiling hatch.
11. The villain sneaks through the halls with a hologram belt, then glides out the window with a wing-suit.
12. The villain spots the secret trapdoors with a sonar visor, then drops a flashing flashbang decoy.

Answer Key

The Spy Island Mystery

Culprit: Lara Croft

Jet Boots · Camo Cloak · Left-handed writer · Lime Green Hair · Allergic to feathers

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE TARGET DOES NOT USE TURBO THRUSTERS"

$3 \times 11 = 33$ (T) · $11 \times 7 = 77$ (B) · $2 \times 8 = 16$ (S) · $10 \times 8 = 80$ (H) · $11 \times 4 = 44$ (U) · $5 \times 8 = 40$ (N) · $3 \times 5 = 15$ (D) · $12 \times 8 = 96$ (R) · $5 \times 5 = 25$ (G) · $11 \times 8 = 88$ (O) · $3 \times 1 = 3$ (A) · $2 \times 12 = 24$ (E)

Clue 2 (Place value): "THE WRITING WAS LEFT HANDED ONLY"

What is the value of the 3 in 25,530? = 30 (T) · What is the value of the 8 in 46,285? = 80 (O) · What is the value of the 8 in 48,246? = 8000 (Y) · What is the value of the 9 in 50,290? = 90 (I) · What is the value of the 7 in 926,729? = 700 (L) · What is the value of the 5 in 917,757? = 50 (F) · What is the value of the 1 in 831,223? = 1000 (H) · What is the value of the 6 in 118,620? = 600 (D) · What is the value of the 5 in 75,010? = 5000 (N) · What is the value of the 3 in 59,316? = 300 (E) · What is the value of the 8 in 75,827? = 800 (G) · What is the value of the 6 in 20,364? = 60 (A) · What is the value of the 5 in 106,521? = 500 (R) · What is the value of the 4 in 384,552? = 4000 (W) · What is the value of the 6 in 96,801? = 6000 (S)

Clue 3 (Addition): "THE VILLAIN SNEEZED AT FEATHERS"

$2790 + 3693 = 6483$ (T) · $1453 + 3008 = 4461$ (I) · $6214 + 2908 = 9122$ (E) · $3162 + 2302 = 5464$ (Z) · $3191 + 3061 = 6252$ (H) · $1021 + 2039 = 3060$ (R) · $3260 + 1561 = 4821$ (N) · $4947 + 3626 = 8573$ (S) · $2118 + 2949 = 5067$ (A) · $6466 + 3367 = 9833$ (V) · $2238 + 2011 = 4249$ (L) · $1616 + 2968 = 4584$ (F) · $3441 + 1488 = 4929$ (D)

Clue 4 (Subtraction): "WE FOUND LIME GREEN HAIR STRANDS"

$7159 - 4676 = 2483$ (W) · $8739 - 2294 = 6445$ (H) · $8495 - 4186 = 4309$ (D) · $11992 - 4319 = 7673$ (M) · $5857 - 3163 = 2694$ (O) · $7293 - 3527 = 3766$ (T) · $6200 - 364 = 5836$ (U) · $1682 - 393 = 1289$ (G) · $8075 - 2820 = 5255$ (L) · $6381 - 3893 = 2488$ (N) · $4725 - 2150 = 2575$ (S) · $8937 - 3683 = 5254$ (A) · $3533 - 131 = 3402$ (F) · $5216 - 2959 = 2257$ (R) · $1967 - 399 = 1568$ (E) · $3152 - 1002 = 2150$ (I)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Lara Croft

$36 \div 9 = 4$ · $56 \div 7 = 8$ · $5 \div 5 = 1$ · $40 \div 8 = 5$ · $15 \div 5 = 3$ · $12 \div 2 = 6$ · $108 \div 12 = 9$ · $88 \div 8 = 11$ · $21 \div 3 = 7$ · $96 \div 8 = 12$ · $10 \div 1 = 10$