



The Secret Treehouse Heist

Grade 4 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky rogue agent has breached the Canopy Heights Spy Treehouse and swiped the Secret Juice Formula! It is up to you, Detective, to follow the clues, use your gadgets, and track down the culprit before the neighborhood 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 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	TREEHOUSE GADGET	SECRET DECODER BADGE	SPY WATCH WRIST	HAIR DYE COLOR	SECRET WEAKNESS
Sam	Laser Pointer	Amber Badge	Wears watch on left wrist	Electric blue hair	Ticklish toes
Waldo	Pocket Drone	Amber Badge	Wears watch on right wrist	Electric blue hair	Allergic to pollen
Ben	Pocket Drone	Cobalt Badge	Wears watch on left wrist	Neon green hair	Scared of spiders
Chase	Slime Launcher	Cobalt Badge	Wears watch on left wrist	Neon green hair	Scared of spiders
Skye	Pocket Drone	Cobalt Badge	Wears watch on right wrist	Electric blue hair	Scared of spiders
Tara	Laser Pointer	Cobalt Badge	Wears watch on left wrist	Electric blue hair	Ticklish toes
Jake	Rocket Boots	Amber Badge	Wears watch on right wrist	Electric blue hair	Allergic to pollen
Danny	Rocket Boots	Emerald Badge	Wears watch on left wrist	Bright orange hair	Scared of spiders
Cody	Pocket Drone	Amber Badge	Wears watch on left wrist	Neon green hair	Ticklish toes
Jerry	Grapple Hook	Emerald Badge	Wears watch on left wrist	Bright orange hair	Ticklish toes
Perry	Rocket Boots	Onyx Badge	Wears watch on left wrist	Bright orange hair	Scared of spiders
Leo	Slime Launcher	Cobalt Badge	Wears watch on right wrist	Bright orange hair	Allergic to pollen
Penny	Pocket Drone	Emerald Badge	Wears watch on left wrist	Neon green hair	Ticklish toes
Kim	Grapple Hook	Emerald Badge	Wears watch on right wrist	Neon green hair	Scared of spiders
Clover	Grapple Hook	Cobalt Badge	Wears watch on left wrist	Neon green hair	Scared of spiders
Zack	Laser Pointer	Onyx Badge	Wears watch on right wrist	Electric blue hair	Ticklish toes
Ivy	Laser Pointer	Cobalt Badge	Wears watch on right wrist	Bright orange hair	Allergic to pollen
Ryder	Grapple Hook	Ruby Badge	Wears watch on left wrist	Neon green hair	Scared of spiders
Gwen	Laser Pointer	Emerald Badge	Wears watch on right wrist	Electric blue hair	Scared of spiders
Tucker	Slime Launcher	Onyx Badge	Wears watch on right wrist	Electric blue hair	Scared of spiders
Ron	Laser Pointer	Cobalt Badge	Wears watch on left wrist	Neon green hair	Scared of spiders

CLUE 1
Multiplication facts (1-12)

Agent Max finds rows of empty gadget crates left behind. Let's count how many total spy badges are missing by multiplying the neat rows of boxes.

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

T																	T
90	77	10	7	63	96	96	50	63	100	64	15	10	14	100	15	90	

				T											
77	50	7	10	90	77	10	120	44	40	55	40	50	64	1	10

$9 \times 10 = \square \rightarrow \boxed{\text{T}}$

$2 \times 7 = \square \rightarrow \boxed{\text{S}}$

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

$8 \times 12 = \square \rightarrow \boxed{\text{L}}$

$7 \times 1 = \square \rightarrow \boxed{\text{V}}$

$7 \times 11 = \square \rightarrow \boxed{\text{H}}$

$5 \times 11 = \square \rightarrow \boxed{\text{Y}}$

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

$1 \times 1 = \square \rightarrow \boxed{\text{G}}$

$12 \times 10 = \square \rightarrow \boxed{\text{R}}$

$10 \times 5 = \square \rightarrow \boxed{\text{A}}$

$4 \times 11 = \square \rightarrow \boxed{\text{U}}$

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

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

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

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

Scratch space:

CLUE 2 Rounding

The treehouse security scanner is a bit glitchy and only displays rounded numbers on its radar screen. We must round the energy signals to read the tracking data.

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

L																			
200	20	370	30	230	5000	2000	1300	20	1300	2300	5000	30	3000	230	430	5000	9000	170	500
3700	2000	30	230	20	30	9000	20	20	1100	5000	9000	170							

Round 167 to the nearest hundred → **L**

Round 17 to the nearest ten → **E**

Round 8,967 to the nearest thousand → **R**

Round 172 to the nearest ten → **K**

Round 1,302 to the nearest hundred → **D**

Round 432 to the nearest ten → **M**

Round 3,326 to the nearest thousand → **C**

Round 1,148 to the nearest hundred → **B**

Round 2,336 to the nearest hundred → **W**

Round 470 to the nearest hundred → **S**

Round 3,749 to the nearest hundred → **O**

Round 2,470 to the nearest thousand → **N**

Round 31 to the nearest ten → **T**

Round 5,430 to the nearest thousand → **A**

Round 233 to the nearest ten → **H**

Round 370 to the nearest ten → **F**

Scratch space:

CLUE 3 Addition

We gather the dropped flashlight batteries from the escape tunnel. Let's tally them all up by adding the piles together to see how far the rogue went.

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

R									R								
9043	9494	8736	9494	3015	9494	8099	8496	9043	6787	5104	9494	6583	5439	8736	8099		
						R											
4558	2444	5439	4324	2802	9043	3015	2802	4049									

$6230 + 2813 = \square \rightarrow \text{R}$	$6324 + 3170 = \square \rightarrow \text{A}$	$5045 + 3054 = \square \rightarrow \text{Y}$
$2930 + 1394 = \square \rightarrow \text{D}$	$809 + 1635 = \square \rightarrow \text{P}$	$2830 + 5906 = \square \rightarrow \text{N}$
$1750 + 1052 = \square \rightarrow \text{E}$	$2878 + 2561 = \square \rightarrow \text{I}$	$2456 + 4331 = \square \rightarrow \text{O}$
$3166 + 1938 = \square \rightarrow \text{M}$	$1426 + 1589 = \square \rightarrow \text{W}$	$3365 + 3218 = \square \rightarrow \text{T}$
$2820 + 1738 = \square \rightarrow \text{S}$	$1742 + 2307 = \square \rightarrow \text{B}$	$5635 + 2861 = \square \rightarrow \text{F}$

Scratch space:

CLUE 4

Subtraction

The gadget vault is missing some gear. We take our total inventory and subtract the leftover tools to find out exactly how many items the thief grabbed.

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

N			N					N					N								
8047	6666	4261	8047	1544	4224	6666	6666	8047	6280	2954	4224	7292	8047	2693	6280	1944	6666	6965	2954		
	N							N													
4261	8047	2954	3931	6666	3338	4224	7292	8047	1960	3931											

$9841 - 1794 = \square \rightarrow \boxed{\text{N}}$

$5998 - 1774 = \square \rightarrow \boxed{\text{R}}$

$6739 - 4795 = \square \rightarrow \boxed{\text{L}}$

$8298 - 1333 = \square \rightarrow \boxed{\text{F}}$

$4431 - 500 = \square \rightarrow \boxed{\text{H}}$

$10419 - 3127 = \square \rightarrow \boxed{\text{A}}$

$7495 - 4802 = \square \rightarrow \boxed{\text{D}}$

$8765 - 2099 = \square \rightarrow \boxed{\text{E}}$

$5731 - 1470 = \square \rightarrow \boxed{\text{O}}$

$4101 - 2557 = \square \rightarrow \boxed{\text{G}}$

$4189 - 1235 = \square \rightarrow \boxed{\text{T}}$

$5743 - 2405 = \square \rightarrow \boxed{\text{B}}$

$8395 - 2115 = \square \rightarrow \boxed{\text{S}}$

$4786 - 2826 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

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

To cover the search area quickly, we must divide our patrol squad evenly among the treehouse rope bridges to narrow down the final hideout.

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:

$10 \div 10 = \square$

$64 \div 8 = \square$

$81 \div 9 = \square$

$40 \div 8 = \square$

$84 \div 7 = \square$

$55 \div 5 = \square$

$2 \div 1 = \square$

$28 \div 7 = \square$

$36 \div 12 = \square$

$24 \div 4 = \square$

$40 \div 4 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain swiped the golden compass, then climbed down the rope ladder.
2. The villain took the mega battery, then climbed down the rope ladder.
3. The villain swiped the golden compass, then bounced off the trampoline.
4. The villain swiped the golden compass, then scrambled over the fence.
5. The villain swiped the golden compass, then jumped into the bushes.
6. The villain snatched the secret map, then scrambled over the fence.
7. The villain grabbed the master key, then climbed down the rope ladder.
8. The villain stole the decoder ring, then climbed down the rope ladder.
9. The villain snatched the secret map, then climbed down the rope ladder.
10. The villain took the mega battery, then scrambled over the fence.
11. The villain took the mega battery, then bounced off the trampoline.
12. The villain grabbed the master key, then zipped down the escape line.

Answer Key

The Secret Treehouse Heist

Culprit: Ben

Pocket Drone · Cobalt Badge · Wears watch on left wrist · Neon green hair · Scared of spiders

Trail: Start 21 → Clue 1 20 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT HAVE THE RUBY BADGE"

$9 \times 10 = 90$ (T) · $2 \times 7 = 14$ (S) · $1 \times 10 = 10$ (E) · $8 \times 12 = 96$ (L) · $7 \times 1 = 7$ (V) · $7 \times 11 = 77$ (H) · $5 \times 11 = 55$ (Y) · $9 \times 7 = 63$ (I) · $1 \times 1 = 1$ (G) · $12 \times 10 = 120$ (R) · $10 \times 5 = 50$ (A) · $4 \times 11 = 44$ (U) · $10 \times 10 = 100$ (N) · $4 \times 10 = 40$ (B) · $8 \times 8 = 64$ (D) · $3 \times 5 = 15$ (O)

Clue 2 (Rounding): "LEFT HANDED WATCH MARKS ON THE TREE BARK"

Round 167 to the nearest hundred = 200 (L) · Round 17 to the nearest ten = 20 (E) · Round 8,967 to the nearest thousand = 9000 (R) · Round 172 to the nearest ten = 170 (K) · Round 1,302 to the nearest hundred = 1300 (D) · Round 432 to the nearest ten = 430 (M) · Round 3,326 to the nearest thousand = 3000 (C) · Round 1,148 to the nearest hundred = 1100 (B) · Round 2,336 to the nearest hundred = 2300 (W) · Round 470 to the nearest hundred = 500 (S) · Round 3,749 to the nearest hundred = 3700 (O) · Round 2,470 to the nearest thousand = 2000 (N) · Round 31 to the nearest ten = 30 (T) · Round 5,430 to the nearest thousand = 5000 (A) · Round 233 to the nearest ten = 230 (H) · Round 370 to the nearest ten = 370 (F)

Clue 3 (Addition): "RAN AWAY FROM A TINY SPIDER WEB"

$6230 + 2813 = 9043$ (R) · $6324 + 3170 = 9494$ (A) · $5045 + 3054 = 8099$ (Y) · $2930 + 1394 = 4324$ (D) · $809 + 1635 = 2444$ (P) · $2830 + 5906 = 8736$ (N) · $1750 + 1052 = 2802$ (E) · $2878 + 2561 = 5439$ (I) · $2456 + 4331 = 6787$ (O) · $3166 + 1938 = 5104$ (M) · $1426 + 1589 = 3015$ (W) · $3365 + 3218 = 6583$ (T) · $2820 + 1738 = 4558$ (S) · $1742 + 2307 = 4049$ (B) · $5635 + 2861 = 8496$ (F)

Clue 4 (Subtraction): "NEON GREEN STRANDS LEFT ON THE BRANCH"

$9841 - 1794 = 8047$ (N) · $5998 - 1774 = 4224$ (R) · $6739 - 4795 = 1944$ (L) · $8298 - 1333 = 6965$ (F) · $4431 - 500 = 3931$ (H) · $10419 - 3127 = 7292$ (A) · $7495 - 4802 = 2693$ (D) · $8765 - 2099 = 6666$ (E) · $5731 - 1470 = 4261$ (O) · $4101 - 2557 = 1544$ (G) · $4189 - 1235 = 2954$ (T) · $5743 - 2405 = 3338$ (B) · $8395 - 2115 = 6280$ (S) · $4786 - 2826 = 1960$ (C)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Ben

$10 \div 10 = 1$ · $64 \div 8 = 8$ · $81 \div 9 = 9$ · $40 \div 8 = 5$ · $84 \div 7 = 12$ · $55 \div 5 = 11$ · $2 \div 1 = 2$ · $28 \div 7 = 4$ · $36 \div 12 = 3$ · $24 \div 4 = 6$ · $40 \div 4 = 10$