



The Treehouse Spy Caper

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

Detective: _____ Date: _____

Oh no! Someone broke into the Treehouse HQ and took the legendary Mega-Magnifier gadget! Chief Spark needs your help. Look at the clues, solve the math, and find the rogue agent before they escape!

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	SPY GEAR	BACKUP TOOL	WRITING HAND	DISGUISE WIG	SECRET WEAKNESS
Toby	Jetpack Boots	Smoke Bomb	Right-handed	Bright Orange Wig	Loud Sirens
Lola	Sonic Whistle	Smoke Bomb	Left-handed	Bright Orange Wig	Squeaky Toys
Ben	Sonic Whistle	Mini Drone	Right-handed	Bright Orange Wig	Loud Sirens
Chloe	Grappling Hook	Smoke Bomb	Right-handed	Electric Blue Wig	Loud Sirens
Perry	Decoder Glasses	Mini Drone	Right-handed	Neon Green Wig	Squeaky Toys
Maya	Laser Watch	Smoke Bomb	Left-handed	Bright Orange Wig	Loud Sirens
Natasha	Laser Watch	Sticky Glove	Left-handed	Neon Green Wig	Loud Sirens
Carmen	Grappling Hook	Sticky Glove	Right-handed	Bright Orange Wig	Squeaky Toys
Cody	Sonic Whistle	Flashlight Glove	Right-handed	Electric Blue Wig	Loud Sirens
Kim	Sonic Whistle	Sticky Glove	Left-handed	Electric Blue Wig	Squeaky Toys
Sam	Laser Watch	Net Launcher	Right-handed	Bright Orange Wig	Loud Sirens
Leo	Sonic Whistle	Flashlight Glove	Right-handed	Electric Blue Wig	Spicy Chips
Judy	Jetpack Boots	Mini Drone	Left-handed	Bright Orange Wig	Spicy Chips
James	Jetpack Boots	Net Launcher	Right-handed	Bright Orange Wig	Loud Sirens
Boris	Grappling Hook	Flashlight Glove	Right-handed	Bright Orange Wig	Loud Sirens
Harriet	Jetpack Boots	Sticky Glove	Left-handed	Electric Blue Wig	Squeaky Toys
Austin	Decoder Glasses	Mini Drone	Right-handed	Bright Orange Wig	Spicy Chips
Sherlock	Jetpack Boots	Flashlight Glove	Right-handed	Bright Orange Wig	Loud Sirens
Watson	Jetpack Boots	Sticky Glove	Left-handed	Bright Orange Wig	Squeaky Toys
Nancy	Decoder Glasses	Mini Drone	Left-handed	Bright Orange Wig	Loud Sirens
Archer	Laser Watch	Smoke Bomb	Right-handed	Bright Orange Wig	Squeaky Toys

Multiplication facts (1-12)

We need to count the rows of agent badges left on the main desk. They are stored in equal groups.

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

A number line from 0 to 100 with boxes for numbers. The number 45 is highlighted in orange and labeled 'T'.

$5 \times 9 = \boxed{} \rightarrow \boxed{\text{T}}$

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

$5 \times 5 = \square \rightarrow \mathbf{U}$

$7 \times 8 = \boxed{} \rightarrow \boxed{0}$

$11 \times 4 = \square \rightarrow \boxed{\mathbf{A}}$

$2 \times 8 = \square \rightarrow \boxed{\text{N}}$

$10 \times 3 =$ $\rightarrow$ **E**

$$12 \times 9 = \boxed{} \rightarrow \boxed{\text{L}}$$

$1 \times 2 = \boxed{} \rightarrow \boxed{\text{K}}$

$$2 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$9 \times 9 = \square \rightarrow \boxed{\text{D}}$

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

$5 \times 11 = \boxed{} \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 2 Rounding

The radar screen in the treehouse only shows rounded numbers. We must round the distance to find where the thief ran.

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

T										T									
5000	200	400	70	4000	70	500	400	300	5000	30	2000	8000	5000	400	70	40	800	60	700

		T		T						T					
30	8000	5000	200	5000	200	400	2000	8000	900	200	5000	200	80	800	600

Round 4,502 to the nearest thousand → **T**

Round 39 to the nearest ten → **O**

Round 66 to the nearest ten → **S**

Round 82 to the nearest ten → **A**

Round 221 to the nearest hundred → **H**

Round 638 to the nearest hundred → **D**

Round 56 to the nearest ten → **L**

Round 372 to the nearest hundred → **E**

Round 490 to the nearest hundred → **P**

Round 929 to the nearest hundred → **G**

Round 1,737 to the nearest thousand → **R**

Round 29 to the nearest ten → **W**

Round 4,426 to the nearest thousand → **U**

Round 305 to the nearest hundred → **C**

Round 7,742 to the nearest thousand → **I**

Round 820 to the nearest hundred → **N**

Round 667 to the nearest hundred → **Y**

Scratch space:

CLUE 3 Addition

Let us add up the total number of footprints found in the mud near the garden gate.

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

T			T															
895	245	549	895	245	982	549	673	576	354	554	576	530	901	673	354	549	549	901
673	327	547	878	354	547	786	297	901	982	327	549	680	901					

$476 + 419 = \square \rightarrow \text{T}$

$416 + 566 = \square \rightarrow \text{I}$

$223 + 331 = \square \rightarrow \text{W}$

$181 + 349 = \square \rightarrow \text{Y}$

$535 + 251 = \square \rightarrow \text{U}$

$217 + 359 = \square \rightarrow \text{A}$

$415 + 258 = \square \rightarrow \text{F}$

$134 + 111 = \square \rightarrow \text{H}$

$170 + 377 = \square \rightarrow \text{O}$

$226 + 323 = \square \rightarrow \text{E}$

$119 + 235 = \square \rightarrow \text{L}$

$273 + 407 = \square \rightarrow \text{N}$

$216 + 111 = \square \rightarrow \text{R}$

$372 + 506 = \square \rightarrow \text{M}$

$489 + 412 = \square \rightarrow \text{S}$

$207 + 90 = \square \rightarrow \text{D}$

Scratch space:

CLUE 4

Subtraction

Some secret decoder rings are missing from the supply box. Subtract the leftovers to see how many were taken.

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

A									A						
236	637	622	166	185	242	136	470	622	236	338	185	428	370	166	185

			A				A								
742	136	622	236	338	558	370	236	742	541	428	551	136	637	428	242

$237 - 1 = \square \rightarrow \boxed{\text{A}}$

$540 - 112 = \square \rightarrow \boxed{\text{E}}$

$360 - 118 = \square \rightarrow \boxed{\text{H}}$

$549 - 364 = \square \rightarrow \boxed{\text{G}}$

$229 - 93 = \square \rightarrow \boxed{\text{T}}$

$593 - 123 = \square \rightarrow \boxed{\text{O}}$

$322 - 156 = \square \rightarrow \boxed{\text{I}}$

$472 - 102 = \square \rightarrow \boxed{\text{W}}$

$873 - 236 = \square \rightarrow \boxed{\text{B}}$

$1029 - 287 = \square \rightarrow \boxed{\text{S}}$

$911 - 370 = \square \rightarrow \boxed{\text{L}}$

$1020 - 398 = \square \rightarrow \boxed{\text{R}}$

$684 - 133 = \square \rightarrow \boxed{\text{F}}$

$416 - 78 = \square \rightarrow \boxed{\text{N}}$

$625 - 67 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

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

We have a pile of magnifying glasses to share equally among our kid spy teams to finish the search.

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:

$12 \div 1 = \boxed{}$

$99 \div 11 = \boxed{}$

$24 \div 12 = \boxed{}$

$10 \div 1 = \boxed{}$

$5 \div 5 = \boxed{}$

$88 \div 8 = \boxed{}$

$80 \div 10 = \boxed{}$

$30 \div 6 = \boxed{}$

$48 \div 12 = \boxed{}$

$9 \div 3 = \boxed{}$

$56 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain distracted the guard dogs with a sonic whistle, then fired a net launcher to trap the robot dog.
2. The villain distracted the guard dogs with a sonic whistle, then flew a mini drone to scout the backyard.
3. The villain zoomed away on jetpack boots over the fence, then climbed the brick wall using a sticky glove.
4. The villain distracted the guard dogs with a sonic whistle, then dropped a smoke bomb to vanish into thin air.
5. The villain distracted the guard dogs with a sonic whistle, then lit up the dark tunnel with a flashlight glove.
6. The villain swung up to the roof with a grappling hook, then lit up the dark tunnel with a flashlight glove.
7. The villain read the secret map with decoder glasses, then climbed the brick wall using a sticky glove.
8. The villain escaped by using a laser watch to cut the door lock, then flew a mini drone to scout the backyard.
9. The villain zoomed away on jetpack boots over the fence, then dropped a smoke bomb to vanish into thin air.
10. The villain swung up to the roof with a grappling hook, then climbed the brick wall using a sticky glove.
11. The villain swung up to the roof with a grappling hook, then flew a mini drone to scout the backyard.
12. The villain zoomed away on jetpack boots over the fence, then lit up the dark tunnel with a flashlight glove.

Answer Key

The Treehouse Spy Caper

Culprit: Boris

Grappling Hook · Flashlight Glove · Right-handed · Bright Orange Wig · Loud Sirens

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAK DOES NOT USE A NET LAUNCHER"

$5 \times 9 = 45$ (T) · $7 \times 7 = 49$ (C) · $5 \times 5 = 25$ (U) · $7 \times 8 = 56$ (O) · $11 \times 4 = 44$ (A) · $2 \times 8 = 16$ (N) · $10 \times 3 = 30$ (E) · $12 \times 9 = 108$ (L) · $1 \times 2 = 2$ (K) · $2 \times 11 = 22$ (S) · $9 \times 9 = 81$ (D) · $9 \times 7 = 63$ (H) · $5 \times 11 = 55$ (R)

Clue 2 (Rounding): "THE SUSPECT WRITES ONLY WITH THE RIGHT HAND"

Round 4,502 to the nearest thousand = 5000 (T) · Round 39 to the nearest ten = 40 (O) · Round 66 to the nearest ten = 70 (S) · Round 82 to the nearest ten = 80 (A) · Round 221 to the nearest hundred = 200 (H) · Round 638 to the nearest hundred = 600 (D) · Round 56 to the nearest ten = 60 (L) · Round 372 to the nearest hundred = 400 (E) · Round 490 to the nearest hundred = 500 (P) · Round 929 to the nearest hundred = 900 (G) · Round 1,737 to the nearest thousand = 2000 (R) · Round 29 to the nearest ten = 30 (W) · Round 4,426 to the nearest thousand = 4000 (U) · Round 305 to the nearest hundred = 300 (C) · Round 7,742 to the nearest thousand = 8000 (I) · Round 820 to the nearest hundred = 800 (N) · Round 667 to the nearest hundred = 700 (Y)

Clue 3 (Addition): "THE THIEF ALWAYS FLEES FROM LOUD SIRENS"

$476 + 419 = 895$ (T) · $416 + 566 = 982$ (I) · $223 + 331 = 554$ (W) · $181 + 349 = 530$ (Y) · $535 + 251 = 786$ (U) · $217 + 359 = 576$ (A) · $415 + 258 = 673$ (F) · $134 + 111 = 245$ (H) · $170 + 377 = 547$ (O) · $226 + 323 = 549$ (E) · $119 + 235 = 354$ (L) · $273 + 407 = 680$ (N) · $216 + 111 = 327$ (R) · $372 + 506 = 878$ (M) · $489 + 412 = 901$ (S) · $207 + 90 = 297$ (D)

Clue 4 (Subtraction): "A BRIGHT ORANGE WIG STRAND WAS LEFT BEHIND"

$237 - 1 = 236$ (A) · $540 - 112 = 428$ (E) · $360 - 118 = 242$ (H) · $549 - 364 = 185$ (G) · $229 - 93 = 136$ (T) · $593 - 123 = 470$ (O) · $322 - 156 = 166$ (I) · $472 - 102 = 370$ (W) · $873 - 236 = 637$ (B) · $1029 - 287 = 742$ (S) · $911 - 370 = 541$ (L) · $1020 - 398 = 622$ (R) · $684 - 133 = 551$ (F) · $416 - 78 = 338$ (N) · $625 - 67 = 558$ (D)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Boris

$12 \div 1 = 12$ · $99 \div 11 = 9$ · $24 \div 12 = 2$ · $10 \div 1 = 10$ · $5 \div 5 = 1$ · $88 \div 8 = 11$ · $80 \div 10 = 8$ · $30 \div 6 = 5$ · $48 \div 12 = 4$ · $9 \div 3 = 3$ · $56 \div 8 = 7$