



The Cloud Kingdom Heist

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

Detective: _____ **Date:** _____

The legendary Golden Compass has been swiped from the Chief Cartographer's floating workshop! A mysterious Rogue Navigator took it and zipped away into the clouds. We need to track them down before they find the secret sky temple!

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 Navigator 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	BACKUP TOOL	GOGGLE WEAR	HELMET HAIR	FEAR
Jack	Glider Cape	Sonic Whistle	Goggles on Forehead	Curly Green Locks	Squeaky Shoes
Leia	Rocket Boots	Laser Cutter	Goggles on Neck	Spiky Blue Hair	Squeaky Shoes
Buzz	Glider Cape	Laser Cutter	Goggles on Forehead	Spiky Blue Hair	Loud Sneezes
Wendy	Turbo Propeller	Smoke Bomb	Goggles on Neck	Curly Green Locks	Ticklish Feathers
Indy	Grappling Hook	Magnetic Net	Goggles on Neck	Spiky Blue Hair	Ticklish Feathers
Bindi	Rocket Boots	Smoke Bomb	Goggles on Forehead	Spiky Blue Hair	Loud Sneezes
Alice	Turbo Propeller	Sonic Whistle	Goggles on Neck	Curly Green Locks	Ticklish Feathers
Bear	Glider Cape	Magnetic Net	Goggles on Forehead	Spiky Blue Hair	Loud Sneezes
Lara	Turbo Propeller	Magnetic Net	Goggles on Forehead	Spiky Blue Hair	Squeaky Shoes
Rey	Turbo Propeller	Magnetic Net	Goggles on Forehead	Spiky Blue Hair	Loud Sneezes
Arthur	Glider Cape	Solar Flashlight	Goggles on Neck	Curly Green Locks	Squeaky Shoes
Han	Turbo Propeller	Magnetic Net	Goggles on Neck	Curly Green Locks	Ticklish Feathers
Robin	Grappling Hook	Laser Cutter	Goggles on Neck	Curly Green Locks	Ticklish Feathers
Neil	Climbing Claws	Solar Flashlight	Goggles on Neck	Curly Green Locks	Ticklish Feathers
Amelia	Rocket Boots	Smoke Bomb	Goggles on Forehead	Curly Green Locks	Ticklish Feathers
Sally	Glider Cape	Magnetic Net	Goggles on Forehead	Curly Green Locks	Squeaky Shoes
Marco	Climbing Claws	Sonic Whistle	Goggles on Neck	Curly Green Locks	Loud Sneezes
Steve	Rocket Boots	Magnetic Net	Goggles on Neck	Bright Orange Ponytail	Loud Sneezes
Diego	Rocket Boots	Sonic Whistle	Goggles on Neck	Bright Orange Ponytail	Ticklish Feathers
Luke	Rocket Boots	Magnetic Net	Goggles on Forehead	Curly Green Locks	Ticklish Feathers
Jane	Grappling Hook	Smoke Bomb	Goggles on Forehead	Curly Green Locks	Loud Sneezes

CLUE 1 Addition

We found the rogue's gear bag! To count the total badges inside, we need to add the gold badges and the silver badges together.

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

T																T
9483	9227	4403	2841	3916	5445	5445	9228	3916	5632	3428	9050	4403	3812	5632	9050	9483

4619	3812	4403	9228	3812	9050	5632	3916	6175	6760	9227	3916	3812	9483	5445	4403	

$5668 + 3815 = \boxed{} \rightarrow \boxed{\text{T}}$

$2580 + 2039 = \boxed{} \rightarrow \boxed{\text{U}}$

$4634 + 4594 = \boxed{} \rightarrow \boxed{\text{A}}$

$4248 + 2512 = \boxed{} \rightarrow \boxed{\text{W}}$

$1060 + 2368 = \boxed{} \rightarrow \boxed{\text{D}}$

$1401 + 2515 = \boxed{} \rightarrow \boxed{\text{I}}$

$2679 + 1724 = \boxed{} \rightarrow \boxed{\text{E}}$

$2812 + 2820 = \boxed{} \rightarrow \boxed{\text{N}}$

$6018 + 3032 = \boxed{} \rightarrow \boxed{\text{O}}$

$1769 + 2043 = \boxed{} \rightarrow \boxed{\text{S}}$

$5204 + 4023 = \boxed{} \rightarrow \boxed{\text{H}}$

$2488 + 3687 = \boxed{} \rightarrow \boxed{\text{C}}$

$2641 + 2804 = \boxed{} \rightarrow \boxed{\text{L}}$

$1571 + 1270 = \boxed{} \rightarrow \boxed{\text{V}}$

Scratch space:

CLUE 2 Subtraction

The escape balloon is leaking hot air! Let's subtract the lost altitude from the starting height to see how low they are flying.

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

T								T						
1712	3364	1401	5406	4944	5406	6115	1401	1502	1712	1846	1401	3519	4854	5406

												T					
8629	5439	8629	8629	8102	1401	5406	3519	4854	5439	4944	8090	4990	1712	3364	1401	5816	4854

8090	1401	1502	3353

$6042 - 4330 = \boxed{} \rightarrow \boxed{T}$

$11650 - 3021 = \boxed{} \rightarrow \boxed{G}$

$9306 - 4316 = \boxed{} \rightarrow \boxed{D}$

$3543 - 24 = \boxed{} \rightarrow \boxed{A}$

$7092 - 3739 = \boxed{} \rightarrow \boxed{K}$

$6858 - 3494 = \boxed{} \rightarrow \boxed{H}$

$7140 - 1025 = \boxed{} \rightarrow \boxed{P}$

$6104 - 698 = \boxed{} \rightarrow \boxed{S}$

$10563 - 2473 = \boxed{} \rightarrow \boxed{N}$

$4832 - 3431 = \boxed{} \rightarrow \boxed{E}$

$9095 - 3279 = \boxed{} \rightarrow \boxed{I}$

$11826 - 3724 = \boxed{} \rightarrow \boxed{L}$

$2837 - 1335 = \boxed{} \rightarrow \boxed{C}$

$6811 - 1372 = \boxed{} \rightarrow \boxed{O}$

$4527 - 2681 = \boxed{} \rightarrow \boxed{W}$

$9444 - 4590 = \boxed{} \rightarrow \boxed{R}$

$6069 - 1125 = \boxed{} \rightarrow \boxed{U}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

The runaway balloon dropped boxes of energy bars. The boxes are stacked in equal rows, so we can multiply to find the total.

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

T																			
88	27	108	14	16	48	48	40	16	33	6	27	16	14	108	50	6			
				T										T					
33	108	40	50	88	16	99	2	48	16	6	27	110	108	40	88	27	108	50	6

$11 \times 8 = \square \rightarrow \boxed{\text{T}}$

$3 \times 9 = \square \rightarrow \boxed{\text{H}}$

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

$11 \times 10 = \square \rightarrow \boxed{\text{F}}$

$12 \times 9 = \square \rightarrow \boxed{\text{E}}$

$6 \times 8 = \square \rightarrow \boxed{\text{L}}$

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

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

$8 \times 5 = \square \rightarrow \boxed{\text{A}}$

$11 \times 9 = \square \rightarrow \boxed{\text{C}}$

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

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

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

Scratch space:

CLUE 4

Our wind radar is blurry and can only show rounded numbers. Let's round the speed dial to the nearest ten to get a lock on their position.

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

7000 2000 70 1700 230 500 70 110 110 290 1700 9000 7000 300 50 2900 110 70 110 1700 110 90 200 9000 290 200 900 110 50 110 5000 200

Round 6,916 to the nearest thousand → **C**

Round 4,732 to the nearest thousand → **A**

Round 869 to the nearest hundred $\rightarrow$ **H**

Round 8,873 to the nearest thousand $\rightarrow$

Round 274 to the nearest hundred → **K**

Round 107 to the nearest ten → **E**

Round 47 to the nearest ten $\rightarrow$ **S**

Round 72 to the nearest ten $\rightarrow$ **R**

Round 290 to the nearest ten $\rightarrow$ **N**

Round 504 to the nearest hundred → **G**

Round 1,735 to the nearest hundred $\rightarrow$ **L**

Round 232 to the nearest ten $\rightarrow$ **Y**

Round 171 to the nearest hundred $\rightarrow$ **T**

Round 2,949 to the nearest hundred $\rightarrow$ **W**

Round 91 to the nearest ten → **F**

Round 2,054 to the nearest thousand → **U**

Scratch space:

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

The rogue dropped a secret code sheet. We must divide the total code points equally among our search teams to decode the 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:

$3 \div 3 = \boxed{}$

$100 \div 10 = \boxed{}$

$72 \div 9 = \boxed{}$

$24 \div 8 = \boxed{}$

$36 \div 6 = \boxed{}$

$36 \div 4 = \boxed{}$

$120 \div 10 = \boxed{}$

$121 \div 11 = \boxed{}$

$20 \div 4 = \boxed{}$

$48 \div 12 = \boxed{}$

$70 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain buzzed past the watchtower, then vanished into a cloud of purple mist.
2. The villain scaled the ancient cliff, then blinded the guard with a bright light.
3. The villain scaled the ancient cliff, then scared away the nesting sky birds.
4. The villain swung across the canyon, then scared away the nesting sky birds.
5. The villain buzzed past the watchtower, then blinded the guard with a bright light.
6. The villain blasted over the cloud wall, then blinded the guard with a bright light.
7. The villain buzzed past the watchtower, then sliced open the locked cargo crate.
8. The villain swung across the canyon, then sliced open the locked cargo crate.
9. The villain blasted over the cloud wall, then vanished into a cloud of purple mist.
10. The villain buzzed past the watchtower, then scooped up the floating gems.
11. The villain soared down the windy valley, then scared away the nesting sky birds.
12. The villain swung across the canyon, then vanished into a cloud of purple mist.

Answer Key

The Cloud Kingdom Heist

Culprit: Neil

Climbing Claws · Solar Flashlight · Goggles on Neck · Curly Green Locks · Ticklish Feathers

Trail: Start 21 → Clue 1 17 → Clue 2 8 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A SONIC WHISTLE"

$5668 + 3815 = 9483$ (T) · $2580 + 2039 = 4619$ (U) · $4634 + 4594 = 9228$ (A) · $4248 + 2512 = 6760$ (W) · $1060 + 2368 = 3428$ (D) · $1401 + 2515 = 3916$ (I) · $2679 + 1724 = 4403$ (E) · $2812 + 2820 = 5632$ (N) · $6018 + 3032 = 9050$ (O) · $1769 + 2043 = 3812$ (S) · $5204 + 4023 = 9227$ (H) · $2488 + 3687 = 6175$ (C) · $2641 + 2804 = 5445$ (L) · $1571 + 1270 = 2841$ (V)

Clue 2 (Subtraction): "THE SUSPECT WEARS GOGGLES AROUND THEIR NECK"

$6042 - 4330 = 1712$ (T) · $11650 - 3021 = 8629$ (G) · $9306 - 4316 = 4990$ (D) · $3543 - 24 = 3519$ (A) · $7092 - 3739 = 3353$ (K) · $6858 - 3494 = 3364$ (H) · $7140 - 1025 = 6115$ (P) · $6104 - 698 = 5406$ (S) · $10563 - 2473 = 8090$ (N) · $4832 - 3431 = 1401$ (E) · $9095 - 3279 = 5816$ (I) · $11826 - 3724 = 8102$ (L) · $2837 - 1335 = 1502$ (C) · $6811 - 1372 = 5439$ (O) · $4527 - 2681 = 1846$ (W) · $9444 - 4590 = 4854$ (R) · $6069 - 1125 = 4944$ (U)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN SHIVERS NEAR TICKLISH FEATHERS"

$11 \times 8 = 88$ (T) · $3 \times 9 = 27$ (H) · $2 \times 8 = 16$ (I) · $11 \times 10 = 110$ (F) · $12 \times 9 = 108$ (E) · $6 \times 8 = 48$ (L) · $1 \times 2 = 2$ (K) · $2 \times 3 = 6$ (S) · $8 \times 5 = 40$ (A) · $11 \times 9 = 99$ (C) · $3 \times 11 = 33$ (N) · $5 \times 10 = 50$ (R) · $7 \times 2 = 14$ (V)

Clue 4 (Rounding): "CURLY GREEN LOCKS WERE LEFT ON THE SEAT"

Round 6,916 to the nearest thousand = 7000 (C) · Round 4,732 to the nearest thousand = 5000 (A) · Round 869 to the nearest hundred = 900 (H) · Round 8,873 to the nearest thousand = 9000 (O) · Round 274 to the nearest hundred = 300 (K) · Round 107 to the nearest ten = 110 (E) · Round 47 to the nearest ten = 50 (S) · Round 72 to the nearest ten = 70 (R) · Round 290 to the nearest ten = 290 (N) · Round 504 to the nearest hundred = 500 (G) · Round 1,735 to the nearest hundred = 1700 (L) · Round 232 to the nearest ten = 230 (Y) · Round 171 to the nearest hundred = 200 (T) · Round 2,949 to the nearest hundred = 2900 (W) · Round 91 to the nearest ten = 90 (F) · Round 2,054 to the nearest thousand = 2000 (U)

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

$3 \div 3 = 1$ · $100 \div 10 = 10$ · $72 \div 9 = 8$ · $24 \div 8 = 3$ · $36 \div 6 = 6$ · $36 \div 4 = 9$ · $120 \div 10 = 12$ · $121 \div 11 = 11$ · $20 \div 4 = 5$ · $48 \div 12 = 4$ · $70 \div 10 = 7$