The Sky Map Heist

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

Detective: _____ **Date:** _____

A mysterious Sky Bandit snuck into the Cloud Realm Explorers Base and stole the master sky map! Solve the math clues to uncover who did it and save the expedition.

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 Sky Bandit is _____

Possible suspects

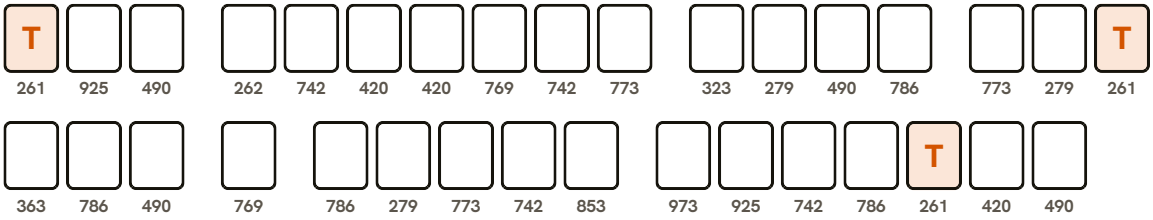
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	MAIN GEAR	SPECIAL GADGET	DOMINANT HAND	HAIR STYLE	TOOL DEFENSE
Cadet Ava	Wind Cannon	Magnet Glove	Left Handed	Braided Red Hair	Bubble Blast
Sky Captain Dan	Grapple Hook	Smoke Bomb	Right Handed	Spiky Blue Hair	Squeaky Toy
Pilot Leo	Cloud Boots	Flash Beacon	Left Handed	Sleek Black Hair	Bubble Blast
Scout Sam	Glider Wings	Sonic Whistle	Left Handed	Braided Red Hair	Bubble Blast
Trapper Cleo	Wind Cannon	Flash Beacon	Left Handed	Spiky Blue Hair	Bubble Blast
Ace Bennett	Grapple Hook	Decoy Flare	Left Handed	Braided Red Hair	Flashlight Beam
Tracker Ivy	Grapple Hook	Flash Beacon	Left Handed	Braided Red Hair	Flashlight Beam
Skye Hunter	Wind Cannon	Decoy Flare	Left Handed	Sleek Black Hair	Flashlight Beam
Navigator Zoe	Wind Cannon	Flash Beacon	Left Handed	Sleek Black Hair	Bubble Blast
Officer Nora	Cloud Boots	Smoke Bomb	Right Handed	Braided Red Hair	Bubble Blast
Commander Dash	Glider Wings	Sonic Whistle	Left Handed	Spiky Blue Hair	Bubble Blast
Agent Knox	Cloud Boots	Magnet Glove	Left Handed	Braided Red Hair	Bubble Blast
Cadet Holly	Grapple Hook	Smoke Bomb	Left Handed	Braided Red Hair	Bubble Blast
Scout Penny	Wind Cannon	Smoke Bomb	Right Handed	Braided Red Hair	Bubble Blast
Explorer Kai	Jet Pack	Sonic Whistle	Left Handed	Spiky Blue Hair	Bubble Blast
Rover Eli	Wind Cannon	Sonic Whistle	Right Handed	Spiky Blue Hair	Bubble Blast
Glider Finn	Grapple Hook	Magnet Glove	Right Handed	Braided Red Hair	Flashlight Beam
Racer Axel	Cloud Boots	Sonic Whistle	Right Handed	Sleek Black Hair	Flashlight Beam
Flyer Milo	Cloud Boots	Flash Beacon	Left Handed	Sleek Black Hair	Flashlight Beam
Flyer Silas	Wind Cannon	Magnet Glove	Left Handed	Spiky Blue Hair	Flashlight Beam
Ranger Jax	Wind Cannon	Decoy Flare	Left Handed	Braided Red Hair	Bubble Blast

CLUE 1 Addition

> The cartographer tallying total sky maps found extra clues written on the back.

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



162 + 99 = ☐ → T

112 + 251 = ☐ → U

410 + 363 = ☐ → N

466 + 320 = ☐ → S

354 + 499 = ☐ → C

174 + 246 = ☐ → L

197 + 293 = ☐ → E

192 + 131 = ☐ → D

571 + 402 = ☐ → W

93 + 186 = ☐ → O

526 + 399 = ☐ → H

348 + 421 = ☐ → A

174 + 88 = ☐ → V

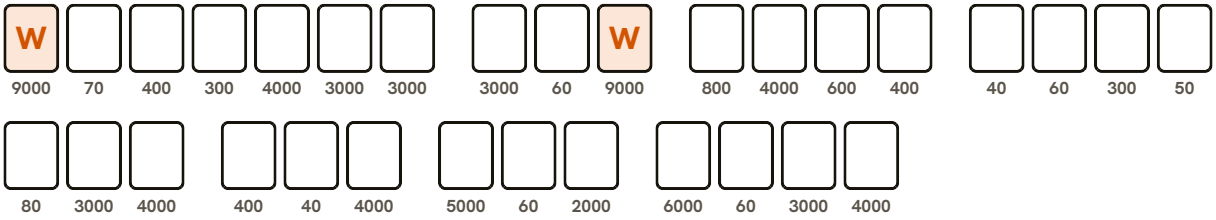
418 + 324 = ☐ → I

Scratch space:

CLUE 2 Rounding

The cloud radar only shows rounded height numbers, revealing a hidden flying path.

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



Round 9,187 to the nearest thousand ☐ → W

Round 420 to the nearest hundred ☐ → T

Round 4,648 to the nearest thousand ☐ → M

Round 70 to the nearest ten ☐ → I

Round 5,660 to the nearest thousand ☐ → C

Round 62 to the nearest ten ☐ → A

Round 4,276 to the nearest thousand ☐ → E

Round 54 to the nearest ten ☐ → D

Round 38 to the nearest ten ☐ → H

Round 338 to the nearest hundred ☐ → N

Round 792 to the nearest hundred ☐ → L

Round 1,804 to the nearest thousand ☐ → P

Round 83 to the nearest ten ☐ → U

Round 3,045 to the nearest thousand ☐ → S

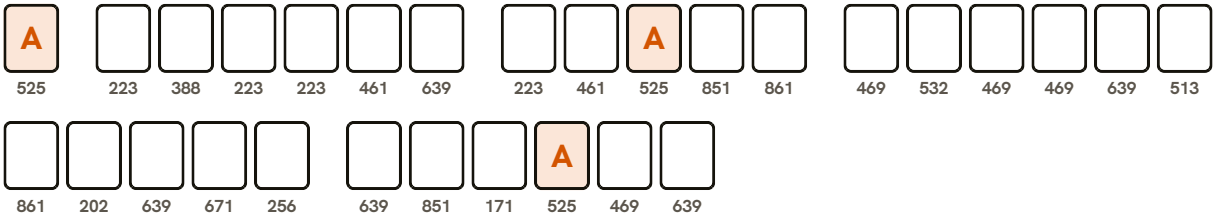
Round 606 to the nearest hundred ☐ → F

Scratch space:

CLUE 3 Subtraction

> Subtracting damaged airship gears left behind a secret code on the compass.

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



582 - 57 = ☐ → **A**

394 - 171 = ☐ → **B**

946 - 85 = ☐ → **T**

405 - 149 = ☐ → **R**

684 - 171 = ☐ → **D**

366 - 195 = ☐ → **C**

779 - 140 = ☐ → **E**

615 - 227 = ☐ → **U**

1024 - 173 = ☐ → **S**

753 - 292 = ☐ → **L**

758 - 87 = ☐ → **I**

764 - 232 = ☐ → **O**

520 - 318 = ☐ → **H**

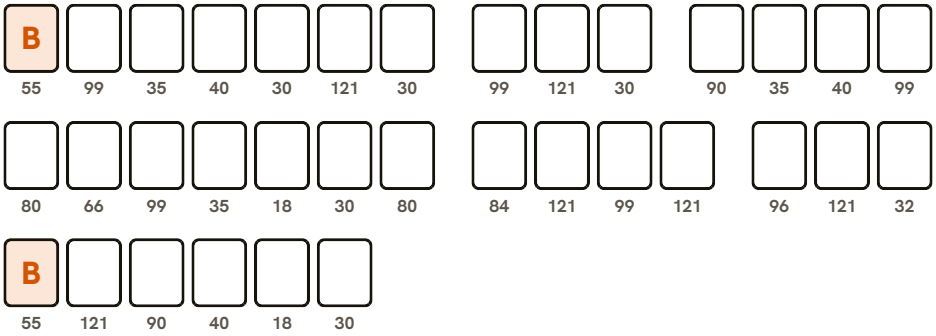
639 - 170 = ☐ → **P**

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The flight logs were arranged in equal rows of crates in the cargo hold.

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



5 × 11 = ☐ → **B**

11 × 11 = ☐ → **E**

12 × 7 = ☐ → **W**

4 × 8 = ☐ → **F**

10 × 9 = ☐ → **H**

4 × 10 = ☐ → **I**

6 × 3 = ☐ → **N**

3 × 10 = ☐ → **D**

10 × 8 = ☐ → **S**

7 × 5 = ☐ → **A**

12 × 8 = ☐ → **L**

6 × 11 = ☐ → **T**

11 × 9 = ☐ → **R**

Scratch space:

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

> Sharing supplies equally among the rescue teams unlocked a locked vault door.

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:

20 ÷ 5 = ☐	24 ÷ 3 = ☐	110 ÷ 11 = ☐	49 ÷ 7 = ☐	24 ÷ 2 = ☐
24 ÷ 4 = ☐	132 ÷ 12 = ☐	45 ÷ 5 = ☐	15 ÷ 3 = ☐	6 ÷ 2 = ☐
5 ÷ 5 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain bounced off using cloud boots, then lit a flash beacon.
2. The villain blasted past with a wind cannon, then launched a decoy flare.
3. The villain blasted past with a wind cannon, then dropped a smoke bomb.
4. The villain bounced off using cloud boots, then grabbed gold with a magnet glove.
5. The villain swung across on a grapple hook, then blew a sonic whistle.
6. The villain bounced off using cloud boots, then dropped a smoke bomb.
7. The villain flew away on glider wings, then dropped a smoke bomb.
8. The villain swung across on a grapple hook, then dropped a smoke bomb.
9. The villain zoomed high with a jet pack, then dropped a smoke bomb.
10. The villain blasted past with a wind cannon, then grabbed gold with a magnet glove.
11. The villain zoomed high with a jet pack, then launched a decoy flare.
12. The villain blasted past with a wind cannon, then blew a sonic whistle.

TEACHER / PARENT

Answer Key

The Sky Map Heist

Culprit: Ranger Jax

Wind Cannon · Decoy Flare · Left Handed · Braided Red Hair · Bubble Blast

Trail: Start 21 → Clue 1 16 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

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

162 + 99 = 261 (T) · 112 + 251 = 363 (U) · 410 + 363 = 773 (N) · 466 + 320 = 786 (S) · 354 + 499 = 853 (C) · 174 + 246 = 420 (L) · 197 + 293 = 490 (E) · 192 + 131 = 323 (D) · 571 + 402 = 973 (W) · 93 + 186 = 279 (O) · 526 + 399 = 925 (H) · 348 + 421 = 769 (A) · 174 + 88 = 262 (V) · 418 + 324 = 742 (I)

Clue 2 (Rounding): "WITNESS SAW LEFT HAND USE THE MAP CASE"

Round 9,187 to the nearest thousand = 9000 (W) · Round 420 to the nearest hundred = 400 (T) · Round 4,648 to the nearest thousand = 5000 (M) · Round 70 to the nearest ten = 70 (I) · Round 5,660 to the nearest thousand = 6000 (C) · Round 62 to the nearest ten = 60 (A) · Round 4,276 to the nearest thousand = 4000 (E) · Round 54 to the nearest ten = 50 (D) · Round 38 to the nearest ten = 40 (H) · Round 338 to the nearest hundred = 300 (N) · Round 792 to the nearest hundred = 800 (L) · Round 1,804 to the nearest thousand = 2000 (P) · Round 83 to the nearest ten = 80 (U) · Round 3,045 to the nearest thousand = 3000 (S) · Round 606 to the nearest hundred = 600 (F)

Clue 3 (Subtraction): "A BUBBLE BLAST POPPED THEIR ESCAPE"

582 - 57 = 525 (A) · 394 - 171 = 223 (B) · 946 - 85 = 861 (T) · 405 - 149 = 256 (R) · 684 - 171 = 513 (D) · 366 - 195 = 171 (C) · 779 - 140 = 639 (E) · 615 - 227 = 388 (U) · 1024 - 173 = 851 (S) · 753 - 292 = 461 (L) · 758 - 87 = 671 (I) · 764 - 232 = 532 (O) · 520 - 318 = 202 (H) · 639 - 170 = 469 (P)

Clue 4 (Multiplication facts (1-12)): "BRAIDED RED HAIR STRANDS WERE LEFT BEHIND"

5 × 11 = 55 (B) · 11 × 11 = 121 (E) · 12 × 7 = 84 (W) · 4 × 8 = 32 (F) · 10 × 9 = 90 (H) · 4 × 10 = 40 (I) · 6 × 3 = 18 (N) · 3 × 10 = 30 (D) · 10 × 8 = 80 (S) · 7 × 5 = 35 (A) · 12 × 8 = 96 (L) · 6 × 11 = 66 (T) · 11 × 9 = 99 (R)

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

20 ÷ 5 = 4 · 24 ÷ 3 = 8 · 110 ÷ 11 = 10 · 49 ÷ 7 = 7 · 24 ÷ 2 = 12 · 24 ÷ 4 = 6 · 132 ÷ 12 = 11 · 45 ÷ 5 = 9 · 15 ÷ 3 = 5 · 6 ÷ 2 = 3 · 5 ÷ 5 = 1