



The Sky Pirate Airship Mystery

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

Detective: _____ **Date:** _____

The legendary Golden Compass has vanished from the cockpit of the Wind Runner airship. The Sky Patrol needs you to solve the clues, track down the thief, and save the day!

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	FLYING STYLE	SIGNATURE GADGET	GOGGLE STYLE	HAIR COLOR	DEFENSE WEAKNESS
Finn	glider wing jacket	decoder monocle	wears black goggles	bright blue hair	scared by loud horn
Capri	glider wing jacket	smoke bomb flask	wears gold goggles	spiky red hair	scared by loud horn
Toby	grappling hook belt	sonic whistle	wears black goggles	bright blue hair	splashed with cold water
Leo	glider wing jacket	flash powder pouch	wears gold goggles	spiky red hair	scared by loud horn
Beck	grappling hook belt	flash powder pouch	wears gold goggles	bright blue hair	scared by loud horn
Zelda	wind blast gloves	flash powder pouch	wears gold goggles	bright blue hair	scared by loud horn
Amelia	grappling hook belt	decoder monocle	wears black goggles	bright blue hair	scared by loud horn
Kira	glider wing jacket	decoder monocle	wears gold goggles	bright blue hair	splashed with cold water
Piper	magnetic climbing boots	sonic whistle	wears black goggles	bright blue hair	scared by loud horn
Nellie	glider wing jacket	sonic whistle	wears gold goggles	braided neon green hair	scared by loud horn
Marco	grappling hook belt	electric net launcher	wears gold goggles	braided neon green hair	splashed with cold water
Sasha	wind blast gloves	smoke bomb flask	wears black goggles	bright blue hair	splashed with cold water
Roxie	wind blast gloves	sonic whistle	wears black goggles	bright blue hair	splashed with cold water
Laura	grappling hook belt	smoke bomb flask	wears gold goggles	bright blue hair	scared by loud horn
Sven	glider wing jacket	sonic whistle	wears black goggles	bright blue hair	splashed with cold water
Drake	magnetic climbing boots	flash powder pouch	wears gold goggles	bright blue hair	scared by loud horn
Otto	glider wing jacket	sonic whistle	wears black goggles	braided neon green hair	scared by loud horn
Gemma	rocket booster pack	decoder monocle	wears gold goggles	bright blue hair	scared by loud horn
Hudson	grappling hook belt	decoder monocle	wears black goggles	spiky red hair	scared by loud horn
Steve	magnetic climbing boots	sonic whistle	wears gold goggles	braided neon green hair	scared by loud horn
Jacques	magnetic climbing boots	flash powder pouch	wears gold goggles	braided neon green hair	scared by loud horn

CLUE 1 Addition

Captain Barnaby counts the crates of heavy iron gear loaded onto the airship. We must add the new cargo to the old stash to find the secret code.

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

T																			
724	204	660	461	756	944	944	254	756	699	964	351	254	987	351	660	724	756	964	
		T																	
699	779	724	254	964	871	779	251	660	554	779	871	554	974	944	254	964	251		

$452 + 272 = \square \rightarrow \boxed{\text{T}}$

$296 + 165 = \square \rightarrow \boxed{\text{V}}$

$130 + 221 = \square \rightarrow \boxed{\text{G}}$

$248 + 531 = \square \rightarrow \boxed{\text{O}}$

$624 + 320 = \square \rightarrow \boxed{\text{L}}$

$386 + 578 = \square \rightarrow \boxed{\text{S}}$

$263 + 291 = \square \rightarrow \boxed{\text{B}}$

$175 + 76 = \square \rightarrow \boxed{\text{K}}$

$105 + 99 = \square \rightarrow \boxed{\text{H}}$

$341 + 646 = \square \rightarrow \boxed{\text{D}}$

$223 + 476 = \square \rightarrow \boxed{\text{N}}$

$349 + 311 = \square \rightarrow \boxed{\text{E}}$

$371 + 385 = \square \rightarrow \boxed{\text{I}}$

$484 + 387 = \square \rightarrow \boxed{\text{M}}$

$332 + 642 = \square \rightarrow \boxed{\text{F}}$

$170 + 84 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 2 Subtraction

The sky pirates dropped some supply bags over the Whispering Mountains to fly faster. Subtract the lost weight to find where they landed.

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

W				W													
161	679	201	598	161	757	232	679	201	366	582	201	232	164	582	679	258	440
							W										
854	258	144	286	679	405	679	161	679	598	514							

$301 - 140 = \square \rightarrow \boxed{W}$

$944 - 90 = \square \rightarrow \boxed{G}$

$443 - 211 = \square \rightarrow \boxed{H}$

$363 - 219 = \square \rightarrow \boxed{L}$

$556 - 151 = \square \rightarrow \boxed{Y}$

$1059 - 380 = \square \rightarrow \boxed{E}$

$765 - 399 = \square \rightarrow \boxed{U}$

$273 - 109 = \square \rightarrow \boxed{I}$

$827 - 313 = \square \rightarrow \boxed{R}$

$762 - 5 = \square \rightarrow \boxed{T}$

$801 - 219 = \square \rightarrow \boxed{N}$

$617 - 19 = \square \rightarrow \boxed{A}$

$304 - 46 = \square \rightarrow \boxed{O}$

$581 - 295 = \square \rightarrow \boxed{D}$

$453 - 13 = \square \rightarrow \boxed{F}$

$386 - 185 = \square \rightarrow \boxed{S}$

Scratch space:

CLUE 3

We found a locked brass compass. To open the lid, we need to find which digit sits in the tens place of the map coordinates.

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

10 700 400 200 900 50 70 40 1000 90 70 8000 7000 400 800 10 6000 400 7000

80 3000 400 800 200 40 90 10 2000 10 900

What is the value of the 1 in 812? → **A**

What is the value of the 8 in 98,705? →

What is the value of the 4 in 7,749? → **U**

What is the value of the 8 in 9,853? → **M**

What is the value of the 7 in 27,115? → **S**

What is the value of the 9 in 970? → **Y**

What is the value of the 2 in 2,816? → **W**

What is the value of the 7 in 1,179? →

What is the value of the 8 in 3,087? → **T**

What is the value of the 7 in 700? → **V**

What is the value of the 1 in 61,442? → **D**

What is the value of the 4 in 492? → **E**

What is the value of the 2 in 283? → **R**

What is the value of the 6 in 6,158? → **K**

What is the value of the 3 in 3,666? → **H**

What is the value of the 5 in 7,758? → **L**

What is the value of the 9 in 898? → **N**

Scratch space:

CLUE 4 Rounding

Our wind radar screen is fuzzy and only shows rounded numbers. Round the distance to the nearest ten to target the thief.

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

W																	
7000	60	2000	300	5000	6000	70	8000	4000	900	700	500	400	9000	4000	800	5000	60

40	9000	900	8000	6000	70	300	2000	400	8000	700	900

Round 7,372 to the nearest thousand → **W**

Round 727 to the nearest hundred → **I**

Round 9,153 to the nearest thousand → **T**

Round 1,912 to the nearest thousand → **F**

Round 389 to the nearest hundred → **H**

Round 68 to the nearest ten → **D**

Round 926 to the nearest hundred → **R**

Round 4,879 to the nearest thousand → **U**

Round 36 to the nearest ten → **S**

Round 3,887 to the nearest thousand → **B**

Round 5,806 to the nearest thousand → **N**

Round 7,639 to the nearest thousand → **A**

Round 531 to the nearest hundred → **G**

Round 264 to the nearest hundred → **O**

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

Round 57 to the nearest ten → **E**

Scratch space:

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

We need to share the recovered golden gears equally among our four search crews. Divide the pile to see how many gears each crew gets.

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:

$8 \div 1 = \boxed{}$

$1 \div 1 = \boxed{}$

$49 \div 7 = \boxed{}$

$5 \div 1 = \boxed{}$

$27 \div 3 = \boxed{}$

$20 \div 10 = \boxed{}$

$12 \div 2 = \boxed{}$

$24 \div 6 = \boxed{}$

$66 \div 6 = \boxed{}$

$108 \div 9 = \boxed{}$

$90 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings across using a grappling hook belt, then throws a flash powder pouch.
2. The villain swoops down in a glider wing jacket, then peeks through a decoder monocle.
3. The villain zooms past on a rocket booster pack, then peeks through a decoder monocle.
4. The villain creates a gale using wind blast gloves, then fires an electric net launcher.
5. The villain swings across using a grappling hook belt, then tweets on a sonic whistle.
6. The villain zooms past on a rocket booster pack, then fires an electric net launcher.
7. The villain scales the hull with magnetic climbing boots, then throws a flash powder pouch.
8. The villain creates a gale using wind blast gloves, then throws a flash powder pouch.
9. The villain scales the hull with magnetic climbing boots, then peeks through a decoder monocle.
10. The villain swings across using a grappling hook belt, then fires an electric net launcher.
11. The villain swings across using a grappling hook belt, then drops a smoke bomb flask.
12. The villain creates a gale using wind blast gloves, then tweets on a sonic whistle.

Answer Key

The Sky Pirate Airship Mystery

Culprit: Gemma

rocket booster pack · decoder monocle · wears gold goggles · bright blue hair · scared by loud horn

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAINS GADGET IS NOT A SMOKE BOMB FLASK"

$452 + 272 = 724$ (T) · $296 + 165 = 461$ (V) · $130 + 221 = 351$ (G) · $248 + 531 = 779$ (O) · $624 + 320 = 944$ (L) · $386 + 578 = 964$ (S) · $263 + 291 = 554$ (B) · $175 + 76 = 251$ (K) · $105 + 99 = 204$ (H) · $341 + 646 = 987$ (D) · $223 + 476 = 699$ (N) · $349 + 311 = 660$ (E) · $371 + 385 = 756$ (I) · $484 + 387 = 871$ (M) · $332 + 642 = 974$ (F) · $170 + 84 = 254$ (A)

Clue 2 (Subtraction): "WE SAW THE SUN SHINE OFF GOLD EYEWEAR"

$301 - 140 = 161$ (W) · $944 - 90 = 854$ (G) · $443 - 211 = 232$ (H) · $363 - 219 = 144$ (L) · $556 - 151 = 405$ (Y) · $1059 - 380 = 679$ (E) · $765 - 399 = 366$ (U) · $273 - 109 = 164$ (I) · $827 - 313 = 514$ (R) · $762 - 5 = 757$ (T) · $801 - 219 = 582$ (N) · $617 - 19 = 598$ (A) · $304 - 46 = 258$ (O) · $581 - 295 = 286$ (D) · $453 - 13 = 440$ (F) · $386 - 185 = 201$ (S)

Clue 3 (Place value): "A VERY LOUD NOISE MAKES THEM RUN AWAY"

What is the value of the 1 in 812? = 10 (A) · What is the value of the 8 in 98,705? = 8000 (I) · What is the value of the 4 in 7,749? = 40 (U) · What is the value of the 8 in 9,853? = 800 (M) · What is the value of the 7 in 27,115? = 7000 (S) · What is the value of the 9 in 970? = 900 (Y) · What is the value of the 2 in 2,816? = 2000 (W) · What is the value of the 7 in 1,179? = 70 (O) · What is the value of the 8 in 3,087? = 80 (T) · What is the value of the 7 in 700? = 700 (V) · What is the value of the 1 in 61,442? = 1000 (D) · What is the value of the 4 in 492? = 400 (E) · What is the value of the 2 in 283? = 200 (R) · What is the value of the 6 in 6,158? = 6000 (K) · What is the value of the 3 in 3,666? = 3000 (H) · What is the value of the 5 in 7,758? = 50 (L) · What is the value of the 9 in 898? = 90 (N)

Clue 4 (Rounding): "WE FOUND A BRIGHT BLUE STRAND OF HAIR"

Round 7,372 to the nearest thousand = 7000 (W) · Round 727 to the nearest hundred = 700 (I) · Round 9,153 to the nearest thousand = 9000 (T) · Round 1,912 to the nearest thousand = 2000 (F) · Round 389 to the nearest hundred = 400 (H) · Round 68 to the nearest ten = 70 (D) · Round 926 to the nearest hundred = 900 (R) · Round 4,879 to the nearest thousand = 5000 (U) · Round 36 to the nearest ten = 40 (S) · Round 3,887 to the nearest thousand = 4000 (B) · Round 5,806 to the nearest thousand = 6000 (N) · Round 7,639 to the nearest thousand = 8000 (A) · Round 531 to the nearest hundred = 500 (G) · Round 264 to the nearest hundred = 300 (O) · Round 820 to the nearest hundred = 800 (L) · Round 57 to the nearest ten = 60 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Gemma

$8 \div 1 = 8$ · $1 \div 1 = 1$ · $49 \div 7 = 7$ · $5 \div 1 = 5$ · $27 \div 3 = 9$ · $20 \div 10 = 2$ · $12 \div 2 = 6$ · $24 \div 6 = 4$ · $66 \div 6 = 11$ · $108 \div 9 = 12$ · $90 \div 9 = 10$