



The Lost Relic of the Sky Temple

Grade 3 math · Addition, Place value, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ Date: _____

An ancient, glowing Sky Crystal has been stolen from the Mount Nimbus Museum! The legendary artifact keeps the floating islands from sinking into the stormy sea below. As the Junior Detective of the Cloud Patrol, you must examine the evidence, decode the flight logs, and stop the Rogue Aviator before the islands fall!

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 Aviator is _____

Possible suspects

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

NAME	ESCAPE GEAR	SPECIAL TOOL	HANDEDNESS	HEADWEAR WORN	KNOWN FEAR
Captain Sterling	Steam Jetpack	Magnetic Boots	Left-handed grip	Red bandana	Afraid of heights
Professor Penny	Grappling Hook	Glow Compass	Left-handed grip	Goggles on forehead	Allergic to cloud-pollen
Jasper Gale	Rope Launcher	Wind Whistle	Right-handed grip	Red bandana	Allergic to cloud-pollen
Dr. Vance	Grappling Hook	Wind Whistle	Left-handed grip	Leather aviator cap	Afraid of heights
Nadia Drift	Grappling Hook	Cloud Lantern	Left-handed grip	Red bandana	Afraid of heights
Tessa Cyclone	Climbing Claws	Magnetic Boots	Left-handed grip	Leather aviator cap	Allergic to cloud-pollen
Iris Jetstream	Steam Jetpack	Sun Prism	Right-handed grip	Leather aviator cap	Allergic to cloud-pollen
Pilot Pip	Rope Launcher	Sun Prism	Left-handed grip	Goggles on forehead	Afraid of heights
Maeve Zephyr	Steam Jetpack	Wind Whistle	Left-handed grip	Red bandana	Scared of thunder
Sable Windrunner	Climbing Claws	Glow Compass	Right-handed grip	Leather aviator cap	Scared of thunder
Sloane Aeros	Grappling Hook	Sun Prism	Right-handed grip	Goggles on forehead	Allergic to cloud-pollen
Rusty Stratus	Rope Launcher	Cloud Lantern	Right-handed grip	Red bandana	Allergic to cloud-pollen
Silas Peak	Glider Wings	Sun Prism	Left-handed grip	Leather aviator cap	Afraid of heights
Buster Barnacle	Climbing Claws	Cloud Lantern	Left-handed grip	Red bandana	Allergic to cloud-pollen
Gemma Flint	Glider Wings	Cloud Lantern	Right-handed grip	Goggles on forehead	Scared of thunder
Captain Amelia	Climbing Claws	Glow Compass	Right-handed grip	Goggles on forehead	Allergic to cloud-pollen
Finn Nimbus	Climbing Claws	Wind Whistle	Right-handed grip	Goggles on forehead	Scared of thunder
Barnaby Finch	Glider Wings	Cloud Lantern	Right-handed grip	Goggles on forehead	Allergic to cloud-pollen
Hazel Summit	Glider Wings	Magnetic Boots	Right-handed grip	Goggles on forehead	Allergic to cloud-pollen
Orion Cloud	Glider Wings	Wind Whistle	Left-handed grip	Goggles on forehead	Allergic to cloud-pollen
Kira Skye	Climbing Claws	Sun Prism	Right-handed grip	Goggles on forehead	Allergic to cloud-pollen

CLUE 1 Addition

We searched the cargo hold of the sky-ship to count the stolen supplies. By adding up the crates of sky-biscuits and rope spools, we found a secret compartment with a coded message inside.

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

T			T											T				
508	600	798	508	600	371	798	906	759	605	798	643	859	605	508	461	798	797	399

					T						T	
870	797	789	859	798	508	371	479	216	605	605	508	643

$327 + 181 = \square \rightarrow \text{T}$	$396 + 474 = \square \rightarrow \text{M}$	$274 + 326 = \square \rightarrow \text{H}$
$151 + 65 = \square \rightarrow \text{B}$	$194 + 267 = \square \rightarrow \text{W}$	$486 + 373 = \square \rightarrow \text{N}$
$187 + 292 = \square \rightarrow \text{C}$	$403 + 503 = \square \rightarrow \text{F}$	$353 + 445 = \square \rightarrow \text{E}$
$405 + 238 = \square \rightarrow \text{S}$	$450 + 309 = \square \rightarrow \text{D}$	$389 + 400 = \square \rightarrow \text{G}$
$156 + 215 = \square \rightarrow \text{I}$	$260 + 345 = \square \rightarrow \text{O}$	$411 + 386 = \square \rightarrow \text{A}$
$250 + 149 = \square \rightarrow \text{R}$		

Scratch space:

CLUE 2 Place value

The navigation computer flickered, displaying the pirate's last known location. We had to break down the digits by their place value to read the secret grid coordinate.

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

A							A										
7000	8000	3000	800	100	50	100	7000	600	90	5000	90	700	40	400	90	800	5000

	A									A	
9000	7000	700	900	600	50	100	5000	90	3000	7000	30

What is the value of the 7 in 47,955? → **A**

What is the value of the 8 in 825? → **G**

What is the value of the 3 in 53,020? → **I**

What is the value of the 9 in 596? → **D**

What is the value of the 4 in 436? → **U**

What is the value of the 1 in 177? → **H**

What is the value of the 9 in 89,304? → **W**

What is the value of the 3 in 4,138? → **L**

What is the value of the 5 in 950? → **T**

What is the value of the 6 in 690? → **N**

What is the value of the 9 in 928? → **O**

What is the value of the 8 in 18,149? → **R**

What is the value of the 4 in 246? → **M**

What is the value of the 5 in 15,101? → **E**

What is the value of the 7 in 3,795? → **S**

Scratch space:

CLUE 3

Subtraction

The weight on our hot-air ballast was dropping fast. By subtracting the lost weight from our starting total, we figured out exactly where the thief threw their heavy gear overboard.

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

A			A															
683	418	328	683	402	169	353	452	670	703	812	812	824	812	670	169	812	806	

							A			
418	353	418	128	812	812	670	226	683	562	812

$697 - 14 = \square \rightarrow \boxed{\text{A}}$

$1222 - 398 = \square \rightarrow \boxed{\text{Z}}$

$930 - 118 = \square \rightarrow \boxed{\text{E}}$

$376 - 248 = \square \rightarrow \boxed{\text{H}}$

$334 - 108 = \square \rightarrow \boxed{\text{C}}$

$830 - 160 = \square \rightarrow \boxed{\text{S}}$

$912 - 106 = \square \rightarrow \boxed{\text{D}}$

$718 - 390 = \square \rightarrow \boxed{\text{R}}$

$738 - 35 = \square \rightarrow \boxed{\text{N}}$

$522 - 353 = \square \rightarrow \boxed{\text{L}}$

$818 - 366 = \square \rightarrow \boxed{\text{F}}$

$580 - 162 = \square \rightarrow \boxed{\text{T}}$

$727 - 374 = \square \rightarrow \boxed{\text{O}}$

$854 - 292 = \square \rightarrow \boxed{\text{P}}$

$656 - 254 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

An ancient stone puzzle blocked our path in the temple. We multiplied the rows of solar tiles by the columns of moon tiles to unlock a hidden compartment holding our next clue.

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

W																		
2	80	110	35	84	54	36	4	35	4	4	96	80	22	108	88	28	55	22
36	88	35	55	55	80	36	54	80	28	88	72	9						

$2 \times 1 = \square \rightarrow \boxed{W}$

$9 \times 1 = \square \rightarrow \boxed{Y}$

$5 \times 7 = \square \rightarrow \boxed{O}$

$12 \times 3 = \square \rightarrow \boxed{D}$

$1 \times 4 = \square \rightarrow \boxed{G}$

$6 \times 9 = \square \rightarrow \boxed{N}$

$12 \times 7 = \square \rightarrow \boxed{U}$

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

$9 \times 8 = \square \rightarrow \boxed{B}$

$4 \times 7 = \square \rightarrow \boxed{A}$

$8 \times 11 = \square \rightarrow \boxed{R}$

$9 \times 12 = \square \rightarrow \boxed{T}$

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

$5 \times 11 = \square \rightarrow \boxed{P}$

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

$8 \times 10 = \square \rightarrow \boxed{E}$

Scratch space:

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

Our fuel reserves had to be split equally among our scout gliders. Dividing the total fuel units by the number of active ships revealed the maximum range of the villain's escape.

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:

$63 \div 7 = \boxed{}$

$90 \div 9 = \boxed{}$

$8 \div 2 = \boxed{}$

$60 \div 12 = \boxed{}$

$24 \div 8 = \boxed{}$

$12 \div 2 = \boxed{}$

$55 \div 5 = \boxed{}$

$108 \div 9 = \boxed{}$

$16 \div 8 = \boxed{}$

$1 \div 1 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain zipped across the gap using a rope launcher, then navigated the dark passage with a glow compass.
2. The villain blasted through the clouds with a steam jetpack, then navigated the dark passage with a glow compass.
3. The villain zipped across the gap using a rope launcher, then blinded the sentry using a shiny sun prism.
4. The villain soared silently down using glider wings, then vanished into the mist with a cloud lantern.
5. The villain zipped across the gap using a rope launcher, then walked upside down using magnetic boots.
6. The villain blasted through the clouds with a steam jetpack, then vanished into the mist with a cloud lantern.
7. The villain scaled the vertical cliff using climbing claws, then blinded the sentry using a shiny sun prism.
8. The villain scaled the vertical cliff using climbing claws, then vanished into the mist with a cloud lantern.
9. The villain swung across the canyon with a grappling hook, then blinded the sentry using a shiny sun prism.
10. The villain scaled the vertical cliff using climbing claws, then navigated the dark passage with a glow compass.
11. The villain zipped across the gap using a rope launcher, then vanished into the mist with a cloud lantern.
12. The villain blasted through the clouds with a steam jetpack, then blinded the sentry using a shiny sun prism.

Answer Key

The Lost Relic of the Sky Temple

Culprit: Kira Skye

Climbing Claws · Sun Prism · Right-handed grip · Goggles on forehead · Allergic to cloud-pollen

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT WEAR MAGNETIC BOOTS"

$327 + 181 = 508$ (T) · $396 + 474 = 870$ (M) · $274 + 326 = 600$ (H) · $151 + 65 = 216$ (B) · $194 + 267 = 461$ (W) · $486 + 373 = 859$ (N) · $187 + 292 = 479$ (C) · $403 + 503 = 906$ (F) · $353 + 445 = 798$ (E) · $405 + 238 = 643$ (S) · $450 + 309 = 759$ (D) · $389 + 400 = 789$ (G) · $156 + 215 = 371$ (I) · $260 + 345 = 605$ (O) · $411 + 386 = 797$ (A) · $250 + 149 = 399$ (R)

Clue 2 (Place value): "A RIGHT HANDED SMUDGE WAS ON THE DIAL"

What is the value of the 7 in 47,955? = 7000 (A) · What is the value of the 8 in 825? = 800 (G) · What is the value of the 3 in 53,020? = 3000 (I) · What is the value of the 9 in 596? = 90 (D) · What is the value of the 4 in 436? = 400 (U) · What is the value of the 1 in 177? = 100 (H) · What is the value of the 9 in 89,304? = 9000 (W) · What is the value of the 3 in 4,138? = 30 (L) · What is the value of the 5 in 950? = 50 (T) · What is the value of the 6 in 690? = 600 (N) · What is the value of the 9 in 928? = 900 (O) · What is the value of the 8 in 18,149? = 8000 (R) · What is the value of the 4 in 246? = 40 (M) · What is the value of the 5 in 15,101? = 5000 (E) · What is the value of the 7 in 3,795? = 700 (S)

Clue 3 (Subtraction): "A TRAIL OF SNEEZES LED TO THE ESCAPE"

$697 - 14 = 683$ (A) · $1222 - 398 = 824$ (Z) · $930 - 118 = 812$ (E) · $376 - 248 = 128$ (H) · $334 - 108 = 226$ (C) · $830 - 160 = 670$ (S) · $912 - 106 = 806$ (D) · $718 - 390 = 328$ (R) · $738 - 35 = 703$ (N) · $522 - 353 = 169$ (L) · $818 - 366 = 452$ (F) · $580 - 162 = 418$ (T) · $727 - 374 = 353$ (O) · $854 - 292 = 562$ (P) · $656 - 254 = 402$ (I)

Clue 4 (Multiplication facts (1-12)): "WE FOUND GOGGLE STRAPS DROPPED NEARBY"

$2 \times 1 = 2$ (W) · $9 \times 1 = 9$ (Y) · $5 \times 7 = 35$ (O) · $12 \times 3 = 36$ (D) · $1 \times 4 = 4$ (G) · $6 \times 9 = 54$ (N) · $12 \times 7 = 84$ (U) · $10 \times 11 = 110$ (F) · $9 \times 8 = 72$ (B) · $4 \times 7 = 28$ (A) · $8 \times 11 = 88$ (R) · $9 \times 12 = 108$ (T) · $11 \times 2 = 22$ (S) · $5 \times 11 = 55$ (P) · $12 \times 8 = 96$ (L) · $8 \times 10 = 80$ (E)

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

$63 \div 7 = 9$ · $90 \div 9 = 10$ · $8 \div 2 = 4$ · $60 \div 12 = 5$ · $24 \div 8 = 3$ · $12 \div 2 = 6$ · $55 \div 5 = 11$ · $108 \div 9 = 12$ · $16 \div 8 = 2$ · $1 \div 1 = 1$ · $24 \div 3 = 8$