



The Sky Temple Heist

Grade 4 math · Subtraction, Addition, Place value, Word problems, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The golden Solar Compass has been stolen from the Sky Temple of Aeolus! A rogue sky-bandit snuck past the wind traps, deactivated the cloud barriers, and made off with the artifact. The High Council of Explorers needs your help to crack the codes, analyze the clues, and find the culprit among the visiting captains before they sail into the great storm.

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 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	SIGNATURE TOOL	SKY VEHICLE	STEERING GRIP	HAIR STREAK	PHOBIA
Vasco	Grapple Launcher	Solar Sailer	Right-Handed Steer	Silver Hair Streak	Fear of Water
Edmund	Magnetic Boots	Turbo Gyrocopter	Left-Handed Steer	Emerald Hair Streak	Fear of Water
Gertrude	Spyglass Laser	Cloud Skiff	Right-Handed Steer	Emerald Hair Streak	Fear of Water
Jeanne	Aero Glider	Steam Zeppelin	Left-Handed Steer	Emerald Hair Streak	Fear of Spiders
Isabella	Sonic Whistle	Cloud Skiff	Right-Handed Steer	Emerald Hair Streak	Fear of Spiders
Kira	Sonic Whistle	Solar Sailer	Left-Handed Steer	Silver Hair Streak	Fear of Spiders
Charles	Sonic Whistle	Steam Zeppelin	Left-Handed Steer	Emerald Hair Streak	Fear of Water
Zheng	Spyglass Laser	Wind Scooter	Left-Handed Steer	Emerald Hair Streak	Fear of Water
Mary	Magnetic Boots	Turbo Gyrocopter	Left-Handed Steer	Emerald Hair Streak	Fear of Heights
Ibn	Grapple Launcher	Solar Sailer	Left-Handed Steer	Emerald Hair Streak	Fear of Water
Marco	Magnetic Boots	Wind Scooter	Right-Handed Steer	Emerald Hair Streak	Fear of Spiders
Junko	Sonic Whistle	Solar Sailer	Left-Handed Steer	Emerald Hair Streak	Fear of Spiders
Fridtjof	Spyglass Laser	Turbo Gyrocopter	Left-Handed Steer	Emerald Hair Streak	Fear of Heights
Nellie	Sonic Whistle	Wind Scooter	Right-Handed Steer	Crimson Hair Streak	Fear of Water
Ranulph	Sonic Whistle	Wind Scooter	Right-Handed Steer	Emerald Hair Streak	Fear of Heights
Roald	Spyglass Laser	Cloud Skiff	Right-Handed Steer	Silver Hair Streak	Fear of Water
Sacagawea	Magnetic Boots	Solar Sailer	Left-Handed Steer	Silver Hair Streak	Fear of Spiders
Leo	Aero Glider	Wind Scooter	Right-Handed Steer	Crimson Hair Streak	Fear of Heights
Freya	Grapple Launcher	Cloud Skiff	Left-Handed Steer	Emerald Hair Streak	Fear of Water
Harriet	Sonic Whistle	Cloud Skiff	Left-Handed Steer	Silver Hair Streak	Fear of Spiders
Jacques	Spyglass Laser	Wind Scooter	Left-Handed Steer	Silver Hair Streak	Fear of Water

CLUE 1 Subtraction

We compared the fuel reserves of the suspect vessels. By subtracting the remaining fuel from the starting amount, we can pinpoint which ship fled the fastest.

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

T																			
7568	7800	1178	4398	6449	1004	7385	4999	7568	7385	4524	1178	1886	1004	4524	7568	5290	3002	8375	
6449	1886	4524	3002	6449	8459	1886	6449	4999	3002	1178	8459								

$$12448 - 4880 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$4543 - 19 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$8727 - 268 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$8420 - 45 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$7979 - 1530 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$8083 - 2793 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$5443 - 4265 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2978 - 1974 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$6099 - 1100 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$12291 - 4491 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$6881 - 3879 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$5359 - 961 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$9722 - 2337 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$5006 - 3120 = \boxed{} \rightarrow \boxed{\text{S}}$$

Scratch space:

CLUE 2 Addition

Our scout found discarded sky-coins along the escape route. Adding up the values of these coins reveals the weight of the pack the bandit carried.

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

T							T											
2376	2914	6842	5848	6792	8426	2376	7106	6792	7333	5950	2914	6842	6842	7333	5950	8600	6501	

						T		T					T	
7897	2110	7333	7333	6842	8950	2376	6792	2376	2914	6842	7333	6842	9149	2376

$1466 + 910 = \square \rightarrow \text{T}$	$5089 + 2808 = \square \rightarrow \text{P}$	$4023 + 5126 = \square \rightarrow \text{F}$
$3919 + 2873 = \square \rightarrow \text{O}$	$3974 + 1874 = \square \rightarrow \text{C}$	$3936 + 5014 = \square \rightarrow \text{D}$
$3984 + 1966 = \square \rightarrow \text{W}$	$3587 + 3519 = \square \rightarrow \text{R}$	$1988 + 4513 = \square \rightarrow \text{S}$
$4406 + 2927 = \square \rightarrow \text{L}$	$1273 + 1641 = \square \rightarrow \text{H}$	$3546 + 4880 = \square \rightarrow \text{N}$
$3459 + 5141 = \square \rightarrow \text{A}$	$3729 + 3113 = \square \rightarrow \text{E}$	$878 + 1232 = \square \rightarrow \text{U}$

Scratch space:

CLUE 3 Place value

The temple's lock has a digital display that reads coordinate values. To crack the locked door, we need to find the value of the digit in the hundreds place.

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

T			T															
5000	70	7000	5000	70	30	7000	3000	80	700	40	700	300	700	8000	3000	80	100	2000
T					T													
5000	70	7000	300	700	5000	7000	80	3000	700	10	10							

What is the value of the 5 in 5,008? → **T**

What is the value of the 2 in 52,354? → **M**

What is the value of the 1 in 4,159? → **O**

What is the value of the 8 in 380? → **R**

What is the value of the 3 in 367? → **W**

What is the value of the 1 in 9,418? → **L**

What is the value of the 8 in 38,676? → **Y**

What is the value of the 3 in 3,167? → **F**

What is the value of the 7 in 975? → **H**

What is the value of the 4 in 349? → **N**

What is the value of the 7 in 2,728? → **A**

What is the value of the 3 in 5,736? → **I**

What is the value of the 7 in 17,252? → **E**

Scratch space:

CLUE 4 Word problems

A helpful deckhand left a riddle about their supply crates. Solving these word problems will give us the key to the next navigation chart.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of EEISTEK hair

67 69 67 14 51 55 75 22 51 14 67 51

turned up at the scene.

Navigator Toby found 35 spyglasses yesterday and 32 more today. How many spyglasses in all?

Answer: → E

Navigator Toby found 41 air-canisters yesterday and 28 more today. How many air-canisters in all?

Answer: → M

There were 82 climbing-ropes. 7 were used up. How many climbing-ropes are left?

Answer: → D

Navigator Toby lined up 2 rows of 11 spyglasses. How many spyglasses in all?

Answer: → H

There were 89 energy-crystals. 38 were used up. How many energy-crystals are left?

Answer: → A

Navigator Toby lined up 11 rows of 5 climbing-ropes. How many climbing-ropes in all?

Answer: → L

Navigator Toby lined up 7 rows of 2 energy-crystals. How many energy-crystals in all?

Answer: → R

Scratch space:

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

The rescue crew needs to divide their energy crystals equally among the rescue ships. Working out this division problem will power up our radar.

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:

$96 \div 8 = \boxed{}$

$15 \div 3 = \boxed{}$

$24 \div 4 = \boxed{}$

$6 \div 2 = \boxed{}$

$12 \div 3 = \boxed{}$

$27 \div 3 = \boxed{}$

$42 \div 6 = \boxed{}$

$16 \div 2 = \boxed{}$

$132 \div 12 = \boxed{}$

$2 \div 1 = \boxed{}$

$110 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sprinted down the wind tunnel, then soared away toward the horizon.
2. The villain swung across the temple chasm, then soared away toward the horizon.
3. The villain scaled the outer cloud wall, then vanished behind a storm cloud.
4. The villain scaled the outer cloud wall, then escaped into the mist.
5. The villain stealthily bypassed the pressure plates, then escaped into the mist.
6. The villain scaled the outer cloud wall, then retreated to the secret dock.
7. The villain dashed through the ancient portal, then retreated to the secret dock.
8. The villain stealthily bypassed the pressure plates, then retreated to the secret dock.
9. The villain swung across the temple chasm, then hid among the floating peaks.
10. The villain dashed through the ancient portal, then soared away toward the horizon.
11. The villain dashed through the ancient portal, then vanished behind a storm cloud.
12. The villain swung across the temple chasm, then vanished behind a storm cloud.

Answer Key

The Sky Temple Heist

Culprit: Edmund

Magnetic Boots · Turbo Gyrocopter · Left-Handed Steer · Emerald Hair Streak · Fear of Water

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE BANDIT DOES NOT FLY A SOLAR SAILER"

12448 - 4880 = 7568 (T) · 4543 - 19 = 4524 (O) · 8727 - 268 = 8459 (R) · 8420 - 45 = 8375 (Y) · 7979 - 1530 = 6449 (A) · 8083 - 2793 = 5290 (F) · 5443 - 4265 = 1178 (E) · 2978 - 1974 = 1004 (N) · 6099 - 1100 = 4999 (I) · 12291 - 4491 = 7800 (H) · 6881 - 3879 = 3002 (L) · 5359 - 961 = 4398 (B) · 9722 - 2337 = 7385 (D) · 5006 - 3120 = 1886 (S)

Clue 2 (Addition): "THE CONTROL WHEEL WAS PULLED TO THE LEFT"

1466 + 910 = 2376 (T) · 5089 + 2808 = 7897 (P) · 4023 + 5126 = 9149 (F) · 3919 + 2873 = 6792 (O) · 3974 + 1874 = 5848 (C) · 3936 + 5014 = 8950 (D) · 3984 + 1966 = 5950 (W) · 3587 + 3519 = 7106 (R) · 1988 + 4513 = 6501 (S) · 4406 + 2927 = 7333 (L) · 1273 + 1641 = 2914 (H) · 3546 + 4880 = 8426 (N) · 3459 + 5141 = 8600 (A) · 3729 + 3113 = 6842 (E) · 878 + 1232 = 2110 (U)

Clue 3 (Place value): "THE THIEF RAN AWAY FROM THE WATERFALL"

What is the value of the 5 in 5,008? = 5000 (T) · What is the value of the 2 in 52,354? = 2000 (M) · What is the value of the 1 in 4,159? = 100 (O) · What is the value of the 8 in 380? = 80 (R) · What is the value of the 3 in 367? = 300 (W) · What is the value of the 1 in 9,418? = 10 (L) · What is the value of the 8 in 38,676? = 8000 (Y) · What is the value of the 3 in 3,167? = 3000 (F) · What is the value of the 7 in 975? = 70 (H) · What is the value of the 4 in 349? = 40 (N) · What is the value of the 7 in 2,728? = 700 (A) · What is the value of the 3 in 5,736? = 30 (I) · What is the value of the 7 in 17,252? = 7000 (E)

Clue 4 (Word problems): "EMERALD HAIR STREAK"

Navigator Toby found 35 spyglasses yesterday and 32 more today. How many spyglasses in all? = 67 (E) · Navigator Toby found 41 air-canisters yesterday and 28 more today. How many air-canisters in all? = 69 (M) · There were 82 climbing-ropes. 7 were used up. How many climbing-ropes are left? = 75 (D) · Navigator Toby lined up 2 rows of 11 spyglasses. How many spyglasses in all? = 22 (H) · There were 89 energy-crystals. 38 were used up. How many energy-crystals are left? = 51 (A) · Navigator Toby lined up 11 rows of 5 climbing-ropes. How many climbing-ropes in all? = 55 (L) · Navigator Toby lined up 7 rows of 2 energy-crystals. How many energy-crystals in all? = 14 (R)

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

96 ÷ 8 = 12 · 15 ÷ 3 = 5 · 24 ÷ 4 = 6 · 6 ÷ 2 = 3 · 12 ÷ 3 = 4 · 27 ÷ 3 = 9 · 42 ÷ 6 = 7 · 16 ÷ 2 = 8 · 132 ÷ 12 = 11 · 2 ÷ 1 = 2 · 110 ÷ 11 = 10