



The Sky Island Cipher

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

Detective: _____ Date: _____

A sneaky Yiga Spy has stolen a highly classified Zonai survey tablet from the research lab! Purah needs you to help decode the clues and track down the thief among the travelers visiting Lookout Landing.

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 Yiga Spy is _____

Possible suspects

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

NAME	ZONAI ARM ABILITY	SAGE VOW	SCOPE HAND	HEADWEAR	ENEMY WEAKNESS
Jerrin	Ultrahand	Vow of Tulin	Left-handed grip	Stealth Mask	Frost Emitter
Bazz	Autobuild	Vow of Yunobo	Left-handed grip	Stealth Mask	Frost Emitter
Link	Ultrahand	Vow of Sidon	Left-handed grip	Stealth Mask	Frost Emitter
Hudson	Autobuild	Vow of Riju	Right-handed grip	Soldier Helmet	Shock Fruit
Robbie	Recall	Vow of Yunobo	Right-handed grip	Stealth Mask	Frost Emitter
Penn	Fuse	Vow of Yunobo	Right-handed grip	Soldier Helmet	Puffshroom
Karson	Recall	Vow of Sidon	Left-handed grip	Stealth Mask	Puffshroom
Yona	Ultrahand	Vow of Mineru	Left-handed grip	Soldier Helmet	Shock Fruit
Joshua	Fuse	Vow of Sidon	Left-handed grip	Soldier Helmet	Puffshroom
Addison	Recall	Vow of Mineru	Left-handed grip	Soldier Helmet	Frost Emitter
Paya	Ultrahand	Vow of Sidon	Right-handed grip	Soldier Helmet	Shock Fruit
Beedle	Ultrahand	Vow of Tulin	Right-handed grip	Cece Hat	Puffshroom
Impa	Ascend	Vow of Tulin	Left-handed grip	Cece Hat	Shock Fruit
Kilton	Autobuild	Vow of Riju	Right-handed grip	Stealth Mask	Puffshroom
Clavia	Ascend	Vow of Yunobo	Right-handed grip	Stealth Mask	Puffshroom
Hestu	Ultrahand	Vow of Riju	Left-handed grip	Stealth Mask	Puffshroom
Koltin	Ascend	Vow of Yunobo	Right-handed grip	Soldier Helmet	Puffshroom
Tauro	Autobuild	Vow of Mineru	Left-handed grip	Stealth Mask	Puffshroom
Rhondson	Ascend	Vow of Sidon	Left-handed grip	Stealth Mask	Puffshroom
Loone	Autobuild	Vow of Tulin	Left-handed grip	Stealth Mask	Puffshroom
Syme	Ultrahand	Vow of Sidon	Right-handed grip	Stealth Mask	Puffshroom

CLUE 1 Addition

Purah is counting the total Zonai charges recovered from the ruins. Help her add these together to reveal which Sage vow the spy avoided using.

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

A number line from 0 to 1000 with boxes for numbers and a 'T' for the target number 808.

0	100	200	300	400	500	600	700	800	900	1000
								T		
808	225	681	804	511	911	825	685	681	804	700
685	295	681	932	587	804	681	808	225	681	

$$543 + 265 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$386 + 299 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$424 + 401 = \boxed{} \rightarrow \boxed{\text{D}}$$

$192 + 319 = \boxed{} \rightarrow \boxed{\text{P}}$

$467 + 444 = \boxed{} \rightarrow \boxed{\text{Y}}$

$$355 + 272 = \boxed{} \rightarrow \boxed{}$$

$192 + 335 = \boxed{} \rightarrow \mathbf{V}$

$173 + 151 = \boxed{} \rightarrow \boxed{\text{M}}$

$$256 + 548 = \boxed{} \rightarrow \boxed{\text{S}}$$

$407 + 180 = \boxed{} \rightarrow \boxed{\text{U}}$

$$118 + 107 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$392 + 308 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$351 + 581 = \boxed{} \rightarrow \boxed{\text{R}}$$

$455 + 226 = \boxed{} \rightarrow \boxed{\text{E}}$

$$165 + 130 = \boxed{} \rightarrow \boxed{\text{W}}$$

$273 + 428 = \boxed{} \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 2

Josha checks the supply crates and finds some Zonaite is missing from the original stash. Calculate the leftover amount to reveal which hand the spy used to hold their scope.

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

A number line from 0 to 1000 with jumps of 100. The number 853 is marked twice, and the jump from 853 to 950 is highlighted in orange.

$1226 - 373 = \boxed{} \rightarrow \boxed{\text{T}}$

$720 - 390 = \boxed{} \rightarrow \boxed{\text{P}}$

$$864 - 284 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$707 - 56 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$487 - 56 = \boxed{} \rightarrow \boxed{\text{F}}$$

$883 - 64 = \boxed{} \rightarrow \boxed{\text{L}}$

$$566 - 306 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$906 - 265 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$710 - 201 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$815 - 299 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$766 - 1 = \boxed{} \rightarrow \boxed{\text{D}}$$

$845 - 160 = \boxed{} \rightarrow \boxed{\text{N}}$

$363 - 119 = \square \rightarrow \boxed{\mathbf{A}}$

$$603 - 310 = \boxed{} \rightarrow \boxed{\text{O}}$$

Scratch space:

Multiplication facts (1-12)

Penn is sorting rows of Zonai devices for his newspaper report. Multiply the rows of wing gliders to discover the weakness of our mysterious runner.

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

A number line from 0 to 1000 with boxes for numbers. The numbers 90 and 900 are highlighted in red.

Number	Box Color
90	Red
35	White
63	White
100	White
3	White
96	White
18	White
66	White
121	White
21	White
35	White
63	White
45	White
28	White
88	White
90	Red
35	White
63	White

3	121	16	16	100	35	24	66	66	25	100	25	66	8	63
---	-----	----	----	-----	----	----	----	----	----	-----	----	----	---	----

$10 \times 9 = \boxed{} \rightarrow \boxed{\text{T}}$

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

$$5 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{M}}$$

$3 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$3 \times 1 = \boxed{} \rightarrow \boxed{\text{P}}$

$1 \times 8 = \square \rightarrow \mathbf{K}$

$10 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$11 \times 11 = \square \rightarrow \mathbf{U}$

$7 \times 9 = \boxed{} \rightarrow \boxed{\text{E}}$

$12 \times 8 = \boxed{} \rightarrow \mathbf{Y}$

$4 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{F}}$

$3 \times 6 = \square \rightarrow \mathbf{C}$

$5 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$5 \times 7 = \boxed{} \rightarrow \boxed{\text{H}}$

$$8 \times 11 = \boxed{} \rightarrow \boxed{\text{N}}$$

$8 \times 3 = \boxed{} \rightarrow \boxed{\mathbf{R}}$

$$6 \times 11 = \boxed{} \rightarrow \boxed{0}$$

Scratch space:

CLUE 4 Rounding

Robbie's sensor tracks a faint energy signal, but the screen only displays rounded numbers. Round these coordinates to the nearest ten to pinpoint the spy's headwear.

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

T																	
3000	6000	9000	4000	800	700	8000	3000	4000	600	2000	7000	600	30	70	900	800	
							T					T					
7000	70	700	200	600	4000	3000	9000	600	300	3000	6000	200	600	4000	400		

Round 3,427 to the nearest thousand → **T**

Round 71 to the nearest ten → **R**

Round 738 to the nearest hundred → **O**

Round 2,033 to the nearest thousand → **W**

Round 8,863 to the nearest thousand → **E**

Round 7,656 to the nearest thousand → **U**

Round 195 to the nearest hundred → **M**

Round 7,379 to the nearest thousand → **F**

Round 621 to the nearest hundred → **A**

Round 289 to the nearest hundred → **L**

Round 944 to the nearest hundred → **I**

Round 4,166 to the nearest thousand → **S**

Round 6,355 to the nearest thousand → **H**

Round 420 to the nearest hundred → **K**

Round 810 to the nearest hundred → **C**

Round 33 to the nearest ten → **B**

Scratch space:

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

Hudson wants to split the remaining bundles of wood equally among his construction crew. Divide the logs to find out which Zonai arm ability the thief used to 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:

$8 \div 1 = \boxed{}$

$22 \div 2 = \boxed{}$

$9 \div 3 = \boxed{}$

$12 \div 2 = \boxed{}$

$12 \div 6 = \boxed{}$

$30 \div 3 = \boxed{}$

$7 \div 1 = \boxed{}$

$63 \div 7 = \boxed{}$

$44 \div 11 = \boxed{}$

$36 \div 3 = \boxed{}$

$9 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain fuses a weapon to escape, then stomps off inside Mineru.
2. The villain fuses a weapon to escape, then glides away with Tulin.
3. The villain autobuilds a getaway vehicle, then glides away with Tulin.
4. The villain ascends through the stone ceiling, then smashes a rock wall with Yunobo.
5. The villain ascends through the stone ceiling, then shields themselves with Sidon.
6. The villain ascends through the stone ceiling, then summons lightning with Riju.
7. The villain recalls a falling block to flee, then smashes a rock wall with Yunobo.
8. The villain recalls a falling block to flee, then shields themselves with Sidon.
9. The villain autobuilds a getaway vehicle, then shields themselves with Sidon.
10. The villain autobuilds a getaway vehicle, then summons lightning with Riju.
11. The villain uses Ultrahand to grab the tablet, then summons lightning with Riju.
12. The villain uses Ultrahand to grab the tablet, then glides away with Tulin.

Answer Key

The Sky Island Cipher

Culprit: Rhondson

Ascend · Vow of Sidon · Left-handed grip · Stealth Mask · Puffshroom

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SPY DOES NOT USE THE VOW OF MINERU"

$543 + 265 = 808$ (T) · $386 + 299 = 685$ (O) · $424 + 401 = 825$ (D) · $192 + 319 = 511$ (P) · $467 + 444 = 911$ (Y) · $355 + 272 = 627$ (I) · $192 + 335 = 527$ (V) · $173 + 151 = 324$ (M) · $256 + 548 = 804$ (S) · $407 + 180 = 587$ (U) · $118 + 107 = 225$ (H) · $392 + 308 = 700$ (N) · $351 + 581 = 932$ (R) · $455 + 226 = 681$ (E) · $165 + 130 = 295$ (W) · $273 + 428 = 701$ (F)

Clue 2 (Subtraction): "THE SUSPECT HELD THE SCOPE IN LEFT HAND"

$1226 - 373 = 853$ (T) · $720 - 390 = 330$ (P) · $864 - 284 = 580$ (E) · $707 - 56 = 651$ (S) · $487 - 56 = 431$ (F) · $883 - 64 = 819$ (L) · $566 - 306 = 260$ (C) · $906 - 265 = 641$ (I) · $710 - 201 = 509$ (H) · $815 - 299 = 516$ (U) · $766 - 1 = 765$ (D) · $845 - 160 = 685$ (N) · $363 - 119 = 244$ (A) · $603 - 310 = 293$ (O)

Clue 3 (Multiplication facts (1-12)): "THE SPY COUGHED IN THE PUFFSHROOM SMOKE"

$10 \times 9 = 90$ (T) · $4 \times 7 = 28$ (I) · $5 \times 5 = 25$ (M) · $3 \times 7 = 21$ (G) · $3 \times 1 = 3$ (P) · $1 \times 8 = 8$ (K) · $10 \times 10 = 100$ (S) · $11 \times 11 = 121$ (U) · $7 \times 9 = 63$ (E) · $12 \times 8 = 96$ (Y) · $4 \times 4 = 16$ (F) · $3 \times 6 = 18$ (C) · $5 \times 9 = 45$ (D) · $5 \times 7 = 35$ (H) · $8 \times 11 = 88$ (N) · $8 \times 3 = 24$ (R) · $6 \times 11 = 66$ (O)

Clue 4 (Rounding): "THE SCOUT SAW FABRIC FROM A STEALTH MASK"

Round 3,427 to the nearest thousand = 3000 (T) · Round 71 to the nearest ten = 70 (R) · Round 738 to the nearest hundred = 700 (O) · Round 2,033 to the nearest thousand = 2000 (W) · Round 8,863 to the nearest thousand = 9000 (E) · Round 7,656 to the nearest thousand = 8000 (U) · Round 195 to the nearest hundred = 200 (M) · Round 7,379 to the nearest thousand = 7000 (F) · Round 621 to the nearest hundred = 600 (A) · Round 289 to the nearest hundred = 300 (L) · Round 944 to the nearest hundred = 900 (I) · Round 4,166 to the nearest thousand = 4000 (S) · Round 6,355 to the nearest thousand = 6000 (H) · Round 420 to the nearest hundred = 400 (K) · Round 810 to the nearest hundred = 800 (C) · Round 33 to the nearest ten = 30 (B)

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

$8 \div 1 = 8$ · $22 \div 2 = 11$ · $9 \div 3 = 3$ · $12 \div 2 = 6$ · $12 \div 6 = 2$ · $30 \div 3 = 10$ · $7 \div 1 = 7$ · $63 \div 7 = 9$ · $44 \div 11 = 4$ · $36 \div 3 = 12$ · $9 \div 9 = 1$