



The Lost Sapphire of Skull Island

Grade 3 math · Addition, Subtraction, Word problems, Skip counting, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky rogue explorer took the golden statue from the island temple. Use the clues to figure out 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 Rogue Explorer is _____

Possible suspects

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

NAME	MAIN TOOL	SIDE GEAR	DOMINANT HAND	HAIR STYLE	SECRET FEAR
Indy Rivers	Compass Navigation	Heavy Machete	Right Handed	Red Waves	Squeaky Boots
Cleo Cliff	Compass Navigation	Flaming Torch	Left Handed	Red Waves	Bright Flashlight
Rex Ranger	Rope Swing	Flaming Torch	Right Handed	Red Waves	Squeaky Boots
Flint Falcon	Compass Navigation	Signal Flare	Right Handed	Red Waves	Squeaky Boots
Nora Knight	Grappling Hook	Paraglider	Left Handed	Silver Buzz	Squeaky Boots
Sam Stone	Grappling Hook	Signal Flare	Left Handed	Brown Braid	Bright Flashlight
Maya Temple	Vine Crawl	Paraglider	Right Handed	Red Waves	Squeaky Boots
Jax Jumper	Compass Navigation	Golden Cutlass	Right Handed	Red Waves	Squeaky Boots
Dash Drake	Grappling Hook	Golden Cutlass	Right Handed	Silver Buzz	Squeaky Boots
Skye Scout	Grappling Hook	Paraglider	Left Handed	Silver Buzz	Bright Flashlight
Cole Canyon	Rope Swing	Golden Cutlass	Left Handed	Brown Braid	Squeaky Boots
Wade Wilder	Rope Swing	Signal Flare	Left Handed	Silver Buzz	Loud Whistle
Kai Valley	Smoke Bomb	Flaming Torch	Right Handed	Red Waves	Bright Flashlight
Tess Trail	Compass Navigation	Flaming Torch	Left Handed	Brown Braid	Bright Flashlight
Zoe Ziggurat	Grappling Hook	Flaming Torch	Right Handed	Red Waves	Loud Whistle
Bram Boulder	Vine Crawl	Flaming Torch	Right Handed	Brown Braid	Loud Whistle
Opal Outpost	Compass Navigation	Signal Flare	Left Handed	Brown Braid	Bright Flashlight
Ivy Insel	Grappling Hook	Flaming Torch	Right Handed	Brown Braid	Squeaky Boots
Ruby Ridge	Compass Navigation	Paraglider	Right Handed	Brown Braid	Squeaky Boots
Leo Vance	Smoke Bomb	Heavy Machete	Left Handed	Red Waves	Squeaky Boots
Liam Locke	Compass Navigation	Golden Cutlass	Left Handed	Silver Buzz	Squeaky Boots

CLUE 1

Addition

We counted all the supplies left at camp to find our first code.

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

T																T
490	933	779	923	859	570	570	238	859	869	743	457	779	435	869	457	490
276	435	779	238	435	859	896	869	238	570	452	570	238	410	779		

$258 + 232 = \square \rightarrow \boxed{\text{T}}$

$96 + 180 = \square \rightarrow \boxed{\text{U}}$

$139 + 99 = \square \rightarrow \boxed{\text{A}}$

$183 + 274 = \square \rightarrow \boxed{\text{O}}$

$523 + 256 = \square \rightarrow \boxed{\text{E}}$

$475 + 268 = \square \rightarrow \boxed{\text{D}}$

$358 + 575 = \square \rightarrow \boxed{\text{H}}$

$231 + 204 = \square \rightarrow \boxed{\text{S}}$

$156 + 296 = \square \rightarrow \boxed{\text{F}}$

$306 + 264 = \square \rightarrow \boxed{\text{L}}$

$615 + 308 = \square \rightarrow \boxed{\text{V}}$

$575 + 321 = \square \rightarrow \boxed{\text{G}}$

$472 + 387 = \square \rightarrow \boxed{\text{I}}$

$462 + 407 = \square \rightarrow \boxed{\text{N}}$

$187 + 223 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 2

Subtraction

We compared the tracks in the mud to see how far ahead the villain was.

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

T										T								
360	552	479	733	671	733	779	479	895	360	622	186	377	779	779	479	622	822	

				T												
186	677	259	552	360	552	822	420	622	479	622	259	492	377	830	479	

$746 - 386 = \square \rightarrow \boxed{\text{T}}$

$846 - 224 = \square \rightarrow \boxed{\text{D}}$

$818 - 39 = \square \rightarrow \boxed{\text{P}}$

$746 - 69 = \square \rightarrow \boxed{\text{I}}$

$1173 - 351 = \square \rightarrow \boxed{\text{A}}$

$432 - 12 = \square \rightarrow \boxed{\text{N}}$

$635 - 83 = \square \rightarrow \boxed{\text{H}}$

$743 - 366 = \square \rightarrow \boxed{\text{O}}$

$1052 - 157 = \square \rightarrow \boxed{\text{C}}$

$494 - 235 = \square \rightarrow \boxed{\text{G}}$

$1061 - 390 = \square \rightarrow \boxed{\text{U}}$

$735 - 2 = \square \rightarrow \boxed{\text{S}}$

$618 - 139 = \square \rightarrow \boxed{\text{E}}$

$937 - 107 = \square \rightarrow \boxed{\text{V}}$

$602 - 110 = \square \rightarrow \boxed{\text{L}}$

$420 - 234 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 3

Word problems

The team packed rescue gear into crates to solve the next clue.

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

Someone scared the villain off with

S **B** **O** **O** **T** **S** .

33 20 74 31 62 13 65 33

Jungle Scout lined up 11 rows of 3 brass lanterns. How many brass lanterns in all?

Answer: → **S**

Jungle Scout found 26 canteen cups yesterday and 5 more today. How many canteen cups in all?

Answer: → **E**

There were 95 canteen cups. 30 were used up. How many canteen cups are left?

Answer: → **Y**

There were 102 canteen cups. 28 were used up. How many canteen cups are left?

Answer: → **U**

There were 37 rope bundles. 24 were used up. How many rope bundles are left?

Answer: → **K**

Jungle Scout found 53 rope bundles yesterday and 9 more today. How many rope bundles in all?

Answer: → **A**

There were 39 map scrolls. 19 were used up. How many map scrolls are left?

Answer: → **Q**

Scratch space:

CLUE 4 Skip counting

We counted footprints in equal jumps along the sandy trail.

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

R											R								
15	18	130	90	6	8	18	42	60	6	14	15	90	6	42	24	18	10	30	
6	30	30	60	18	55	6	22	39											

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **W**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **P**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **E**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **I**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **C**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **V**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **F**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **M**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **H**

Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **S**

Scratch space:

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

We split the remaining compasses evenly among the search parties.

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:

$64 \div 8 = \boxed{}$

$24 \div 8 = \boxed{}$

$36 \div 3 = \boxed{}$

$63 \div 7 = \boxed{}$

$6 \div 3 = \boxed{}$

$5 \div 1 = \boxed{}$

$99 \div 9 = \boxed{}$

$18 \div 3 = \boxed{}$

$80 \div 8 = \boxed{}$

$16 \div 4 = \boxed{}$

$8 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swung on a thick vine, then lit the dark cave with a torch.
2. The villain threw a thick smoke bomb, then lit the dark cave with a torch.
3. The villain crawled across jungle vines, then glided off a cliff.
4. The villain crawled across jungle vines, then swung a golden cutlass.
5. The villain threw a thick smoke bomb, then swung a golden cutlass.
6. The villain used a sturdy grappling hook, then fired a bright flare.
7. The villain navigated with an old compass, then swung a golden cutlass.
8. The villain navigated with an old compass, then cleared paths with a machete.
9. The villain threw a thick smoke bomb, then cleared paths with a machete.
10. The villain crawled across jungle vines, then fired a bright flare.
11. The villain crawled across jungle vines, then cleared paths with a machete.
12. The villain used a sturdy grappling hook, then lit the dark cave with a torch.

Answer Key

The Lost Sapphire of Skull Island

Culprit: Jax Jumper

Compass Navigation · Golden Cutlass · Right Handed · Red Waves · Squeaky Boots

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A SIGNAL FLARE"

$258 + 232 = 490$ (T) · $96 + 180 = 276$ (U) · $139 + 99 = 238$ (A) · $183 + 274 = 457$ (O) · $523 + 256 = 779$ (E) · $475 + 268 = 743$ (D) · $358 + 575 = 933$ (H) · $231 + 204 = 435$ (S) · $156 + 296 = 452$ (F) · $306 + 264 = 570$ (L) · $615 + 308 = 923$ (V) · $575 + 321 = 896$ (G) · $472 + 387 = 859$ (I) · $462 + 407 = 869$ (N) · $187 + 223 = 410$ (R)

Clue 2 (Subtraction): "THE SUSPECT DROPPED A RIGHT HANDED GLOVE"

$746 - 386 = 360$ (T) · $846 - 224 = 622$ (D) · $818 - 39 = 779$ (P) · $746 - 69 = 677$ (I) · $1173 - 351 = 822$ (A) · $432 - 12 = 420$ (N) · $635 - 83 = 552$ (H) · $743 - 366 = 377$ (O) · $1052 - 157 = 895$ (C) · $494 - 235 = 259$ (G) · $1061 - 390 = 671$ (U) · $735 - 2 = 733$ (S) · $618 - 139 = 479$ (E) · $937 - 107 = 830$ (V) · $602 - 110 = 492$ (L) · $420 - 234 = 186$ (R)

Clue 3 (Word problems): "SQUEAKY BOOTS"

Jungle Scout lined up 11 rows of 3 brass lanterns. How many brass lanterns in all? = 33 (S) · Jungle Scout found 26 canteen cups yesterday and 5 more today. How many canteen cups in all? = 31 (E) · There were 95 canteen cups. 30 were used up. How many canteen cups are left? = 65 (Y) · There were 102 canteen cups. 28 were used up. How many canteen cups are left? = 74 (U) · There were 37 rope bundles. 24 were used up. How many rope bundles are left? = 13 (K) · Jungle Scout found 53 rope bundles yesterday and 9 more today. How many rope bundles in all? = 62 (A) · There were 39 map scrolls. 19 were used up. How many map scrolls are left? = 20 (Q)

Clue 4 (Skip counting): "RED WAVES HAIR WAS LEFT AT THE CAMP"

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (W) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (M) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (H) · Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 = 30 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (S)

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

$64 \div 8 = 8$ · $24 \div 8 = 3$ · $36 \div 3 = 12$ · $63 \div 7 = 9$ · $6 \div 3 = 2$ · $5 \div 1 = 5$ · $99 \div 9 = 11$ · $18 \div 3 = 6$ · $80 \div 8 = 10$ · $16 \div 4 = 4$ · $8 \div 8 = 1$