



The Lost Idol of Mystery Island

Grade 4 math · Multiplication, Addition, Word problems, Multi-step word problems, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone snuck into the camp supply tent and took the Golden Monkey Statue! Detective, use the camp logs and track the suspect before they escape into the jungle.

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 bandit leader is _____

Possible suspects

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

NAME	PRIMARY GEAR	SECONDARY GEAR	DOMINANT HAND	HAIR STYLE	SECRET WEAKNESS
Junior Jack	Compass	Canteen	Right Handed	Curly Red Hair	Allergic To Mud
Agent Artie	Compass	Canteen	Left Handed	Spiky Black Hair	Scared Of Bugs
Trekker Tina	Smoke Bomb	Metal Detector	Left Handed	Spiky Black Hair	Allergic To Mud
Pilot Pam	Machete	Canteen	Left Handed	Braided Brown Hair	Scared Of Bugs
Hiker Holly	Smoke Bomb	Paraglider	Right Handed	Braided Brown Hair	Scared Of Bugs
Tracker Tess	Grappling Hook	Paraglider	Left Handed	Braided Brown Hair	Allergic To Mud
Guide Gabe	Machete	Paraglider	Left Handed	Spiky Black Hair	Sneeze At Pepper
Chief Chloe	Flashlight	Canteen	Right Handed	Curly Red Hair	Allergic To Mud
Captain Cody	Machete	Canteen	Left Handed	Spiky Black Hair	Allergic To Mud
Inspector Ian	Smoke Bomb	Canteen	Right Handed	Spiky Black Hair	Allergic To Mud
Scout Sam	Compass	Metal Detector	Right Handed	Spiky Black Hair	Sneeze At Pepper
Sailor Seth	Smoke Bomb	Walkie Talkie	Left Handed	Spiky Black Hair	Allergic To Mud
Ranger Rick	Grappling Hook	Metal Detector	Left Handed	Braided Brown Hair	Sneeze At Pepper
Officer Olivia	Grappling Hook	Paraglider	Right Handed	Curly Red Hair	Sneeze At Pepper
Detective Dave	Smoke Bomb	Metal Detector	Left Handed	Braided Brown Hair	Allergic To Mud
Hunter Hannah	Grappling Hook	Paraglider	Right Handed	Curly Red Hair	Allergic To Mud
Finder Faye	Smoke Bomb	Paraglider	Left Handed	Spiky Black Hair	Sneeze At Pepper
Explorer Emma	Compass	Paraglider	Left Handed	Spiky Black Hair	Allergic To Mud
Pathfinder Pete	Grappling Hook	Paraglider	Left Handed	Spiky Black Hair	Allergic To Mud
Rover Rita	Smoke Bomb	Walkie Talkie	Left Handed	Spiky Black Hair	Scared Of Bugs
Drifter Dan	Machete	Paraglider	Right Handed	Spiky Black Hair	Allergic To Mud

CLUE 1

Multiplication facts (1-12)

You count equal stacks of jungle gear to decode the first secret message.

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

T																T
121	70	120	28	60	66	66	33	60	2	36	8	120	5	2	8	121

12	5	120	33	21	33	2	121	120	120	2						

$11 \times 11 = \square \rightarrow \boxed{\text{T}}$

$5 \times 1 = \square \rightarrow \boxed{\text{S}}$

$12 \times 5 = \square \rightarrow \boxed{\text{I}}$

$7 \times 4 = \square \rightarrow \boxed{\text{V}}$

$3 \times 7 = \square \rightarrow \boxed{\text{C}}$

$6 \times 11 = \square \rightarrow \boxed{\text{L}}$

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

$3 \times 4 = \square \rightarrow \boxed{\text{U}}$

$10 \times 12 = \square \rightarrow \boxed{\text{E}}$

$8 \times 1 = \square \rightarrow \boxed{\text{O}}$

$1 \times 2 = \square \rightarrow \boxed{\text{N}}$

$10 \times 7 = \square \rightarrow \boxed{\text{H}}$

$3 \times 11 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 2

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

Diagram illustrating the memory layout for the 'T' set (orange boxes) and the 'F' set (white boxes) across 32 bits. The top row shows the 'T' set at addresses 2849, 3348, 3466, 6924, 9445, 4969, 4969, 3683, 9445, 2567, 4969, 3466, 6056, 2849, 3683, 4969, 3466, 6056, and 2849. The bottom row shows the 'F' set at addresses 3348, 3683, 2567, 8749, 5277, 6461, 9445, 2567, 2849, 9794, 2567, 2849, 3348, 3466, 2849, 3466, 2567, and 2849.

$$1186 + 1663 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1202 + 2146 = \boxed{} \rightarrow \boxed{\text{H}}$$

$4144 + 1912 = \boxed{} \rightarrow \boxed{\text{F}}$

$2648 + 3813 = \boxed{} \rightarrow \boxed{\text{R}}$

$$6804 + 2990 = \boxed{} \rightarrow \boxed{0}$$

$1512 + 1954 = \boxed{} \rightarrow \boxed{\text{E}}$

$1610 + 2073 = \boxed{} \rightarrow \boxed{\text{A}}$

$$2066 + 2903 = \boxed{} \rightarrow \boxed{\text{L}}$$

$3815 + 4934 = \boxed{} \rightarrow \boxed{\text{D}}$

$$3119 + 3805 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$$1371 + 1196 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1786 + 3491 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$5875 + 3570 = \boxed{} \rightarrow \boxed{}$$

Scratch space:

CLUE 3

Word problems

You solve a camp log riddle about supplies missing from the tent.

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

Someone scared the villain off with

A

T

O

M

U

D

.

There were 78 flashlights. 26 were used up. How many flashlights are left?

Answer: → **A**

Ranger lined up 10 rows of 8 canteens. How many canteens in all?

Answer: → **R**

Ranger lined up 5 rows of 7 maps. How many maps in all?

Answer: → **C**

Ranger found 42 rope bundles yesterday and 11 more today. How many rope bundles in all?

Answer: → **I**

There were 46 maps. 24 were used up. How many maps are left?

Answer: → **G**

Ranger found 10 flashlights yesterday and 15 more today. How many flashlights in all?

Answer: → **E**

Ranger lined up 2 rows of 4 flashlights. How many flashlights in all?

Answer: → **L**

Scratch space:

CLUE 4**Multi-step word problems**

You calculate the travel times and gear used during the night shift.

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

A strand of

S							A	C		H	A		R
74	16	42	19	72	85	21			19			42	

 hair turned up at the scene.

Ranger collected 159 rope bundles in the morning and 211 rope bundles in the afternoon, then split them equally among 5 expedition team. How many rope bundles did each get?

Answer: →

S

There were 224 flashlights in all. 4 expedition team used 32 flashlights each. The other 6 expedition team shared the rest equally. How many flashlights did each of the other expedition team get?

Answer: →

P

Ranger collected 9 canteens in the morning and 75 canteens in the afternoon, then split them equally among 4 expedition team. How many canteens did each get?

Answer: →

L

Ranger filled 2 boxes with 5 canteens each, then found 9 more canteens. How many canteens are there in all?

Answer: →

K

Ranger collected 55 rope bundles in the morning and 285 rope bundles in the afternoon, then split them equally among 4 expedition team. How many rope bundles did each get?

Answer: →

B

Ranger filled 2 boxes with 9 maps each, then found 54 more maps. How many maps are there in all?

Answer: →

Y

There were 300 flashlights in all. 3 expedition team used 30 flashlights each. The other 5 expedition team shared the rest equally. How many flashlights did each of the other expedition team get?

Answer: →

I

Scratch space:

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

You divide the remaining trail clues equally among your team members.

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:

$16 \div 8 = \boxed{}$

$55 \div 5 = \boxed{}$

$18 \div 3 = \boxed{}$

$7 \div 7 = \boxed{}$

$10 \div 2 = \boxed{}$

$90 \div 10 = \boxed{}$

$63 \div 9 = \boxed{}$

$12 \div 3 = \boxed{}$

$90 \div 9 = \boxed{}$

$21 \div 7 = \boxed{}$

$96 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain lit up the dark trail with a flashlight, then searched the dirt with a metal detector.
2. The villain vanished in a cloud of smoke bombs, then searched the dirt with a metal detector.
3. The villain vanished in a cloud of smoke bombs, then glided over the trees with a paraglider.
4. The villain checked the secret path with a compass, then chatted on a walkie talkie.
5. The villain lit up the dark trail with a flashlight, then chatted on a walkie talkie.
6. The villain vanished in a cloud of smoke bombs, then chatted on a walkie talkie.
7. The villain cleared the thick vines with a machete, then searched the dirt with a metal detector.
8. The villain swung across the river with a grappling hook, then glided over the trees with a paraglider.
9. The villain lit up the dark trail with a flashlight, then scouted the camp with binoculars.
10. The villain cleared the thick vines with a machete, then chatted on a walkie talkie.
11. The villain checked the secret path with a compass, then glided over the trees with a paraglider.
12. The villain checked the secret path with a compass, then searched the dirt with a metal detector.

Answer Key

The Lost Idol of Mystery Island

Culprit: Pathfinder Pete

Grappling Hook · Paraglider · Left Handed · Spiky Black Hair · Allergic To Mud

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE A CANTEEN"

$11 \times 11 = 121$ (T) · $5 \times 1 = 5$ (S) · $12 \times 5 = 60$ (I) · $7 \times 4 = 28$ (V) · $3 \times 7 = 21$ (C) · $6 \times 11 = 66$ (L) · $3 \times 12 = 36$ (D) · $3 \times 4 = 12$ (U) · $10 \times 12 = 120$ (E) · $8 \times 1 = 8$ (O) · $1 \times 2 = 2$ (N) · $10 \times 7 = 70$ (H) · $3 \times 11 = 33$ (A)

Clue 2 (Addition): "THE VILLAIN LEFT A LEFT HAND PRINT ON THE TENT"

$1186 + 1663 = 2849$ (T) · $1202 + 2146 = 3348$ (H) · $4144 + 1912 = 6056$ (F) · $2648 + 3813 = 6461$ (R) · $6804 + 2990 = 9794$ (O) · $1512 + 1954 = 3466$ (E) · $1610 + 2073 = 3683$ (A) · $2066 + 2903 = 4969$ (L) · $3815 + 4934 = 8749$ (D) · $3119 + 3805 = 6924$ (V) · $1371 + 1196 = 2567$ (N) · $1786 + 3491 = 5277$ (P) · $5875 + 3570 = 9445$ (I)

Clue 3 (Word problems): "ALLERGIC TO MUD"

There were 78 flashlights. 26 were used up. How many flashlights are left? = 52 (A) · Ranger lined up 10 rows of 8 canteens. How many canteens in all? = 80 (R) · Ranger lined up 5 rows of 7 maps. How many maps in all? = 35 (C) · Ranger found 42 rope bundles yesterday and 11 more today. How many rope bundles in all? = 53 (I) · There were 46 maps. 24 were used up. How many maps are left? = 22 (G) · Ranger found 10 flashlights yesterday and 15 more today. How many flashlights in all? = 25 (E) · Ranger lined up 2 rows of 4 flashlights. How many flashlights in all? = 8 (L)

Clue 4 (Multi-step word problems): "SPIKY BLACK HAIR"

Ranger collected 159 rope bundles in the morning and 211 rope bundles in the afternoon, then split them equally among 5 expedition team. How many rope bundles did each get? = 74 (S) · There were 224 flashlights in all. 4 expedition team used 32 flashlights each. The other 6 expedition team shared the rest equally. How many flashlights did each of the other expedition team get? = 16 (P) · Ranger collected 9 canteens in the morning and 75 canteens in the afternoon, then split them equally among 4 expedition team. How many canteens did each get? = 21 (L) · Ranger filled 2 boxes with 5 canteens each, then found 9 more canteens. How many canteens are there in all? = 19 (K) · Ranger collected 55 rope bundles in the morning and 285 rope bundles in the afternoon, then split them equally among 4 expedition team. How many rope bundles did each get? = 85 (B) · Ranger filled 2 boxes with 9 maps each, then found 54 more maps. How many maps are there in all? = 72 (Y) · There were 300 flashlights in all. 3 expedition team used 30 flashlights each. The other 5 expedition team shared the rest equally. How many flashlights did each of the other expedition team get? = 42 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Pathfinder Pete

$16 \div 8 = 2$ · $55 \div 5 = 11$ · $18 \div 3 = 6$ · $7 \div 7 = 1$ · $10 \div 2 = 5$ · $90 \div 10 = 9$ · $63 \div 9 = 7$ · $12 \div 3 = 4$ · $90 \div 9 = 10$ · $21 \div 7 = 3$ · $96 \div 8 = 12$