



The Whispering Jungle Mystery

Grade 5 math · Place value, Fractions of a number, Order of operations, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The golden idol of the Sun Temple has been stolen! A shadowy figure was seen fleeing into the dense foliage of the Whispering Jungle. We must use our deduction skills and map coordinates to track down the culprit before they escape the island.

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	PRIMARY SKILL	SPECIAL GEAR	BOOT CONDITION	HAIR COLOR	MAIN PHOBIA
Dirk Pitt	wild animal taming	sonic flashlight	wears muddy boots	golden blonde hair	afraid of spiders
Arthur Pendelton	ruin temple decoding	laser compass	wears muddy boots	bright red hair	afraid of spiders
Sally Ride	ancient map reading	jetpack boots	wears muddy boots	golden blonde hair	afraid of spiders
Indiana Jones	ancient map reading	jetpack boots	wears clean boots	bright red hair	allergic to pollen
Lara Croft	grappling hook swing	jetpack boots	wears muddy boots	bright red hair	afraid of spiders
Amelia Earhart	jungle vine climbing	jetpack boots	wears clean boots	bright red hair	allergic to pollen
Montana Smith	ancient map reading	thermal binoculars	wears muddy boots	golden blonde hair	afraid of spiders
Evelyn Carnahan	jungle vine climbing	thermal binoculars	wears clean boots	dark black hair	afraid of spiders
Neil Armstrong	grappling hook swing	laser compass	wears clean boots	golden blonde hair	afraid of spiders
Nathan Drake	jungle vine climbing	thermal binoculars	wears clean boots	dark black hair	scared of bats
Chloe Frazer	ruin temple decoding	jetpack boots	wears muddy boots	dark black hair	scared of bats
Jack Wilder	grappling hook swing	sonic flashlight	wears muddy boots	dark black hair	scared of bats
Claire Redfield	wild animal taming	laser compass	wears muddy boots	golden blonde hair	afraid of spiders
Bindi Irwin	jungle vine climbing	jetpack boots	wears clean boots	dark black hair	afraid of spiders
Rick OConnell	ancient map reading	laser compass	wears clean boots	dark black hair	allergic to pollen
Jill Valentine	grappling hook swing	sonic flashlight	wears muddy boots	dark black hair	afraid of spiders
Marco Polo	grappling hook swing	sonic flashlight	wears muddy boots	bright red hair	afraid of spiders
Laura Cruz	ancient map reading	thermal binoculars	wears muddy boots	bright red hair	scared of bats
Elena Fisher	ruin temple decoding	sonic flashlight	wears clean boots	bright red hair	afraid of spiders
Henry Jones	grappling hook swing	laser compass	wears muddy boots	bright red hair	afraid of spiders
Jonny Quest	jungle vine climbing	thermal binoculars	wears muddy boots	bright red hair	afraid of spiders

CLUE 1

We found a locked GPS device at the campsite. Decipher the digit in the hundreds place to unlock the coordinate screen.

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

What is the value of the 1 in 307,176? → **T**

What is the value of the 2 in 583,234? → **H**

What is the value of the 5 in 998,531? → **N**

What is the value of the 3 in 23,980? → **U**

What is the value of the 9 in 851,982? → **P**

What is the value of the 3 in 72,306? → **S**

What is the value of the 3 in 210,936? →

What is the value of the 8 in 38,679? → **A**

What is the value of the 4 in 36,246? → **K**

What is the value of the 8 in 510,782? → **D**

What is the value of the 1 in 61,700? → **C**

What is the value of the 6 in 41,697? → **J**

What is the value of the 5 in 435,914? → **E**

What is the value of the 4 in 24,750? →

What is the value of the 7 in 97,153? → **B**

What is the value of the 4 in 166,478? → **F**

Scratch space:

CLUE 2 Fractions of a number

The suspect tore up a map of the ancient temple ruins. To piece it back together, we must calculate what fraction of the map pieces are still missing.

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

Diagram illustrating a 3x10 grid of boxes. The boxes are arranged in three rows and ten columns. The values below the boxes are:

26	35	29	2	39	2	15	29	37	26
6	29	8	26	36	39	28	28	10	
8	22	22	26	15	5	4	13	26	2

The boxes containing the letter 'T' are highlighted in orange and are located at positions (1,1), (1,9), (2,4), and (3,9) in 1-indexed coordinates.

$$1/5 \text{ of } 130 = \boxed{} \rightarrow \boxed{\text{T}}$$

4/10 of 55 = $\rightarrow$

$2/5$ of 10 = $\rightarrow$

$4/8$ of $4 = \boxed{} \rightarrow \boxed{\text{S}}$

$2/8$ of 112 = $\rightarrow$ **D**

$2/4$ of 10 = $\rightarrow$ **R**

$\frac{3}{4}$ of 8 = $\rightarrow$ **L**

$$\frac{1}{6} \text{ of } 60 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$\frac{3}{8}$ of 40 = $\rightarrow$ **P**

$$8/10 \text{ of } 45 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$2/4 \text{ of } 26 = \boxed{} \rightarrow \boxed{\text{N}}$$

2/6 of 111 = → **C**

5/10 of 58 = → **E**

2/6 of 24 = → **F**

$$5/8 \text{ of } 56 = \boxed{} \rightarrow \boxed{\text{H}}$$

2/10 of 195 = → **U**

Scratch space:

CLUE 3
Order of operations

To safely bypass the ancient dart trap on the temple wall, we have to solve the equations on the stone buttons in the correct order.

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

A												A							
51	39	75	20	17	16	70	11	35	47	17	9	51	47	35	11	39	66	35	

				A			A		A	
56	70	65	65	51	70	12	51	34	51	20

$42 + 3 \times 3 = \square \rightarrow \boxed{\text{A}}$

$34 + 8 \times 4 = \square \rightarrow \boxed{\text{H}}$

$47 + 6 \times 3 = \square \rightarrow \boxed{\text{L}}$

$2 + 2 \times 9 = \square \rightarrow \boxed{\text{Y}}$

$16 + 3 \times 6 = \square \rightarrow \boxed{\text{W}}$

$7 \times 6 - 3 = \square \rightarrow \boxed{\text{T}}$

$10 + 2 \times 3 = \square \rightarrow \boxed{\text{P}}$

$10 \times 9 - 20 = \square \rightarrow \boxed{\text{I}}$

$11 + 9 \times 5 = \square \rightarrow \boxed{\text{V}}$

$7 \times 2 - 2 = \square \rightarrow \boxed{\text{N}}$

$39 + 6 \times 6 = \square \rightarrow \boxed{\text{O}}$

$3 + 2 \times 4 = \square \rightarrow \boxed{\text{D}}$

$3 \times 10 - 21 = \square \rightarrow \boxed{\text{C}}$

$4 \times 5 - 3 = \square \rightarrow \boxed{\text{S}}$

$29 + 3 \times 6 = \square \rightarrow \boxed{\text{R}}$

$21 + 7 \times 2 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

We discovered several supply crates left by the fleeing suspect. Count the total number of items stored in these matching rows.

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

A				A											
24	30	56	120	24	12	50	22	100	120	10	50	6	24	16	120
44	32	20	12	96	56	22	56	6	10	144	16	12	10		

$8 \times 3 = \square \rightarrow \text{A}$

$10 \times 3 = \square \rightarrow \text{S}$

$12 \times 12 = \square \rightarrow \text{V}$

$8 \times 7 = \square \rightarrow \text{T}$

$4 \times 11 = \square \rightarrow \text{C}$

$10 \times 12 = \square \rightarrow \text{R}$

$8 \times 12 = \square \rightarrow \text{G}$

$4 \times 4 = \square \rightarrow \text{I}$

$1 \times 12 = \square \rightarrow \text{N}$

$4 \times 5 = \square \rightarrow \text{U}$

$3 \times 2 = \square \rightarrow \text{H}$

$4 \times 8 = \square \rightarrow \text{L}$

$5 \times 10 = \square \rightarrow \text{D}$

$10 \times 10 = \square \rightarrow \text{F}$

$2 \times 5 = \square \rightarrow \text{E}$

$11 \times 2 = \square \rightarrow \text{O}$

Scratch space:

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

The expedition team needs to divide the remaining energy bars equally among the search parties before we head into the deep jungle.

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:

$72 \div 6 = \boxed{}$

$77 \div 11 = \boxed{}$

$30 \div 10 = \boxed{}$

$30 \div 6 = \boxed{}$

$96 \div 12 = \boxed{}$

$72 \div 8 = \boxed{}$

$54 \div 9 = \boxed{}$

$90 \div 9 = \boxed{}$

$12 \div 3 = \boxed{}$

$16 \div 8 = \boxed{}$

$77 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scrambled up the towering jungle vines, then spotted the guards from afar using thermal binoculars.
2. The villain unlocked the stone door by decoding runes, then fled over the high jungle canopy using jetpack boots.
3. The villain swung across the canyon with a grappling hook, then blinded the security cameras with a sonic flashlight.
4. The villain scrambled up the towering jungle vines, then snapped photos of the secret ruins with a waterproof camera.
5. The villain charted a secret path using the ancient map, then blinded the security cameras with a sonic flashlight.
6. The villain calmed the angry jaguar with a whistle, then blinded the security cameras with a sonic flashlight.
7. The villain unlocked the stone door by decoding runes, then navigated the dark caves with a laser compass.
8. The villain swung across the canyon with a grappling hook, then fled over the high jungle canopy using jetpack boots.
9. The villain swung across the canyon with a grappling hook, then spotted the guards from afar using thermal binoculars.
10. The villain scrambled up the towering jungle vines, then fled over the high jungle canopy using jetpack boots.
11. The villain swung across the canyon with a grappling hook, then snapped photos of the secret ruins with a waterproof camera.
12. The villain swung across the canyon with a grappling hook, then navigated the dark caves with a laser compass.

Answer Key

The Whispering Jungle Mystery

Culprit: Jonny Quest

jungle vine climbing · thermal binoculars · wears muddy boots · bright red hair · afraid of spiders

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT USE JETPACK BOOTS"

What is the value of the 1 in 307,176? = 100 (T) · What is the value of the 2 in 583,234? = 200 (H) · What is the value of the 5 in 998,531? = 500 (N) · What is the value of the 3 in 23,980? = 3000 (U) · What is the value of the 9 in 851,982? = 900 (P) · What is the value of the 3 in 72,306? = 300 (S) · What is the value of the 3 in 210,936? = 30 (I) · What is the value of the 8 in 38,679? = 8000 (A) · What is the value of the 4 in 36,246? = 40 (K) · What is the value of the 8 in 510,782? = 80 (D) · What is the value of the 1 in 61,700? = 1000 (C) · What is the value of the 6 in 41,697? = 600 (J) · What is the value of the 5 in 435,914? = 5000 (E) · What is the value of the 4 in 24,750? = 4000 (O) · What is the value of the 7 in 97,153? = 7000 (B) · What is the value of the 4 in 166,478? = 400 (F)

Clue 2 (Fractions of a number): "THE SUSPECT LEFT MUDDY FOOTPRINTS"

$\frac{1}{5}$ of 130 = 26 (T) · $\frac{4}{10}$ of 55 = 22 (O) · $\frac{2}{5}$ of 10 = 4 (I) · $\frac{4}{8}$ of 4 = 2 (S) · $\frac{2}{8}$ of 112 = 28 (D) · $\frac{2}{4}$ of 10 = 5 (R) · $\frac{3}{4}$ of 8 = 6 (L) · $\frac{1}{6}$ of 60 = 10 (Y) · $\frac{3}{8}$ of 40 = 15 (P) · $\frac{8}{10}$ of 45 = 36 (M) · $\frac{2}{4}$ of 26 = 13 (N) · $\frac{2}{6}$ of 111 = 37 (C) · $\frac{5}{10}$ of 58 = 29 (E) · $\frac{2}{6}$ of 24 = 8 (F) · $\frac{5}{8}$ of 56 = 35 (H) · $\frac{2}{10}$ of 195 = 39 (U)

Clue 3 (Order of operations): "A TOY SPIDER SCARED THE VILLAIN AWAY"

$42 + 3 \times 3 = 51$ (A) · $34 + 8 \times 4 = 66$ (H) · $47 + 6 \times 3 = 65$ (L) · $2 + 2 \times 9 = 20$ (Y) · $16 + 3 \times 6 = 34$ (W) · $7 \times 6 - 3 = 39$ (T) · $10 + 2 \times 3 = 16$ (P) · $10 \times 9 - 20 = 70$ (I) · $11 + 9 \times 5 = 56$ (V) · $7 \times 2 - 2 = 12$ (N) · $39 + 6 \times 6 = 75$ (O) · $3 + 2 \times 4 = 11$ (D) · $3 \times 10 - 21 = 9$ (C) · $4 \times 5 - 3 = 17$ (S) · $29 + 3 \times 6 = 47$ (R) · $21 + 7 \times 2 = 35$ (E)

Clue 4 (Multiplication facts (1-12)): "A STRAND OF RED HAIR CLUNG TO THE VINE"

$8 \times 3 = 24$ (A) · $10 \times 3 = 30$ (S) · $12 \times 12 = 144$ (V) · $8 \times 7 = 56$ (T) · $4 \times 11 = 44$ (C) · $10 \times 12 = 120$ (R) · $8 \times 12 = 96$ (G) · $4 \times 4 = 16$ (I) · $1 \times 12 = 12$ (N) · $4 \times 5 = 20$ (U) · $3 \times 2 = 6$ (H) · $4 \times 8 = 32$ (L) · $5 \times 10 = 50$ (D) · $10 \times 10 = 100$ (F) · $2 \times 5 = 10$ (E) · $11 \times 2 = 22$ (O)

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

$72 \div 6 = 12$ · $77 \div 11 = 7$ · $30 \div 10 = 3$ · $30 \div 6 = 5$ · $96 \div 12 = 8$ · $72 \div 8 = 9$ · $54 \div 9 = 6$ · $90 \div 9 = 10$ · $12 \div 3 = 4$ · $16 \div 8 = 2$ · $77 \div 7 = 11$