



# The Whispering Jungle Heist

Grade 7 math · Fractions of a number, Word problems, Integers, Percentages · Reading level grades 7-9

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The legendary Emerald Eye has been stolen from the Sunken Temple! A mysterious rogue snuck past the temple traps, snatched the relic, and vanished into the thick jungle canopy. We must examine the tracks, decode the temple archives, and bring the thief to justice 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 Archeologist is** \_\_\_\_\_

## Possible suspects

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

| NAME             | EXPLORER TOOL   | RELIC CARRIED   | DOMINANT HAND   | STRAY HAIR COLOR | SECRET FEAR        |
|------------------|-----------------|-----------------|-----------------|------------------|--------------------|
| Shorty Round     | climbing spikes | jade compass    | uses left hand  | jet black hair   | allergic to pollen |
| Elena Crest      | climbing spikes | obsidian mirror | uses right hand | dusty brown hair | fears spiders      |
| Rex Dasher       | decoder ring    | jade compass    | uses left hand  | bright red hair  | allergic to pollen |
| Gwen Stacy       | decoder ring    | silver key      | uses right hand | bright red hair  | allergic to pollen |
| Maya Thorne      | decoder ring    | golden idol     | uses right hand | dusty brown hair | allergic to pollen |
| Sully Canyon     | grappling hook  | jade compass    | uses left hand  | dusty brown hair | fears spiders      |
| Sydney Fox       | climbing spikes | golden idol     | uses left hand  | dusty brown hair | scared of bats     |
| Chase Walker     | machete         | silver key      | uses left hand  | bright red hair  | fears spiders      |
| Marion Raven     | smoke bombs     | obsidian mirror | uses right hand | jet black hair   | allergic to pollen |
| Brooke Haven     | climbing spikes | obsidian mirror | uses right hand | jet black hair   | allergic to pollen |
| Henry Jones      | climbing spikes | golden idol     | uses right hand | dusty brown hair | allergic to pollen |
| Zoe Carter       | grappling hook  | silver key      | uses left hand  | dusty brown hair | allergic to pollen |
| Leo Sterling     | decoder ring    | jade compass    | uses right hand | dusty brown hair | scared of bats     |
| Arthur Pendelton | climbing spikes | silver key      | uses left hand  | jet black hair   | scared of bats     |
| Indy Rivers      | decoder ring    | ruby beetle     | uses right hand | dusty brown hair | allergic to pollen |
| Rick Oconnell    | grappling hook  | jade compass    | uses right hand | dusty brown hair | allergic to pollen |
| Danny Quest      | smoke bombs     | obsidian mirror | uses right hand | dusty brown hair | allergic to pollen |
| Allan Sparks     | climbing spikes | jade compass    | uses right hand | bright red hair  | fears spiders      |
| Evelyn Carnahan  | grappling hook  | silver key      | uses right hand | jet black hair   | scared of bats     |
| Nathan Ridge     | machete         | jade compass    | uses left hand  | dusty brown hair | allergic to pollen |
| Marcus Brody     | grappling hook  | golden idol     | uses right hand | bright red hair  | allergic to pollen |

### CLUE 1

Our journey begins at the base camp, where we must calculate our survival gear weight. Solve these inventory word problems to unlock the first clue.

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

Diagram showing two rows of boxes with numbers and a 'T' marker. The top row has 14 boxes with numbers 56, 28, 10, 35, 16, 10, 31, 16, 10, 21, 34, 16, 56, 28, 27, 6, 10. The bottom row has 14 boxes with numbers 56, 28, 10, 12, 27, 31, 10, 26, 16, 24, 42, 27, 21, 21. The 'T' marker is in the 13th box of the top row and the 1st box of the bottom row.

4/8 of 112 =  → **T**

4/6 of 42 =  → **H**

$\frac{3}{4}$  of 36 =   $\rightarrow$  **A**

6/8 of 32 =  → **M**

$2/8$  of 124 =   $\rightarrow$  **D**

$3/6$  of  $68 = \square \rightarrow \boxed{\text{N}}$

$\frac{1}{2}$  of 24 =   $\rightarrow$  **J**

2/10 of 30 =  → ☒ V

$\frac{1}{3}$  of 126 =   $\rightarrow$  **P**

$2/8$  of  $64 = \square \rightarrow \boxed{\text{O}}$

$\frac{1}{6}$  of 126 =   $\rightarrow$  **S**

$\frac{1}{3}$  of 78 =   $\rightarrow$  **C**

$5/8$  of  $56 = \square \rightarrow \boxed{\mathbf{F}}$

5/10 of 20 =  → **E**

Scratch space:

## CLUE 2

## Word problems

We find a heavy chest of ancient copper coins left by the thief. A fraction of these coins belongs to our local guide. Solve the fractions to get the next clue.

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

A witness saw the villain was U         T  A N D .

31      120      26      120      93      27      100      63      63

There were 55 canteen. 24 were used up. How many canteen are left?

Answer:  → U

Guide found 42 relic yesterday and 21 more today. How many relic in all?

Answer:  → H

There were 114 torch. 14 were used up. How many torch are left?

Answer:  → G

Guide found 3 backpack yesterday and 24 more today. How many backpack in all?

Answer:  → I

Guide found 22 relic yesterday and 71 more today. How many relic in all?

Answer:  → R

There were 141 relic. 21 were used up. How many relic are left?

Answer:  → S

There were 34 relic. 8 were used up. How many relic are left?

Answer:  → E

Scratch space:

## CLUE 3 Integers

To navigate the underground tunnels, we must track our depth as we climb up and down the stone chambers. Track these positive and negative integers to move forward.

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

|    |   |    |    |   |   |    |    |    |    |    |    |    |    |
|----|---|----|----|---|---|----|----|----|----|----|----|----|----|
| A  |   |    |    |   |   |    |    |    |    |    |    |    |    |
| 20 | 4 | 23 | 13 | 3 | 5 | 13 | 10 | 10 | 23 | 13 | 30 | 27 | 11 |

|    |    |    |    |    |   |   |    |   |    |    |    |    |   |   |    |    |    |
|----|----|----|----|----|---|---|----|---|----|----|----|----|---|---|----|----|----|
|    |    |    |    |    |   |   | A  |   |    |    |    |    |   |   |    | A  |    |
| 25 | 13 | 23 | 23 | 27 | 7 | 9 | 20 | 5 | 27 | 21 | 12 | 27 | 1 | 7 | 27 | 20 | 15 |

|    |    |    |    |
|----|----|----|----|
|    |    |    |    |
| 10 | 23 | 27 | 27 |

|                                             |                                             |                                             |
|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| $11 - (-9) = \square \rightarrow \text{A}$  | $(-15) + 24 = \square \rightarrow \text{M}$ | $4 - (-9) = \square \rightarrow \text{O}$   |
| $(-15) + 18 = \square \rightarrow \text{U}$ | $(-12) + 17 = \square \rightarrow \text{D}$ | $(-11) + 21 = \square \rightarrow \text{F}$ |
| $(-1) + 31 = \square \rightarrow \text{W}$  | $12 - (-11) = \square \rightarrow \text{L}$ | $(-4) + 16 = \square \rightarrow \text{H}$  |
| $(-11) + 38 = \square \rightarrow \text{E}$ | $(-1) + 5 = \square \rightarrow \text{C}$   | $(-13) + 38 = \square \rightarrow \text{P}$ |
| $10 - (-11) = \square \rightarrow \text{T}$ | $(-3) + 14 = \square \rightarrow \text{R}$  | $7 - (-8) = \square \rightarrow \text{K}$   |
| $(-11) + 18 = \square \rightarrow \text{N}$ | $(-3) + 4 = \square \rightarrow \text{S}$   |                                             |

Scratch space:

### CLUE 4

The ancient solar door needs a specific percentage of light reflecting off our mirrors to trigger its mechanism. Calculate the percentages to reveal the fourth clue.

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

Diagram illustrating a memory layout with two rows of boxes. The top row contains 15 boxes, with the first and 14th boxes containing the letter 'W'. The bottom row contains 14 empty boxes. Numbers are placed below each box, representing addresses or indices.

Top Row (Addresses/Indices): 1, 12, 21, 16, 27, 35, 51, 51, 27, 15, 48, 17, 28, 29, 16, 1, 35.

Bottom Row (Addresses/Indices): 30, 58, 56, 29, 16, 35, 48, 30, 12, 31, 27, 35, 25, 14, 12, 13, 56, 35, 12.

$$50\% \text{ of } 2 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{W}}$$

5% of 500 =  → **G**

10% of 310 =   $\rightarrow$  **J**

25% of 204 =   $\rightarrow$  **D**

20% of 150 =  → **H**

50% of 56 =   $\rightarrow$  **B**

10% of 160 =   $\rightarrow$

75% of 36 =  → **U**

50% of 58 =  → **R**

25% of 56 =   $\rightarrow$  **L**

5% of 960 =   $\rightarrow$  **T**

25% of 140 =   $\rightarrow$  **N**

5% of 260 =   $\rightarrow$  **V**

10% of 120 =  → **E**

40% of 145 =   $\rightarrow$  **A**

20% of 85 =   $\rightarrow$  **Y**

10% of 150 =   $\rightarrow$  **S**

10% of 560 =   $\rightarrow$

75% of 28 =   $\rightarrow$  **F**

Scratch space:

**CLUE 5****Fractions of a number - the last clue**

We discover a pouch of glowing crystals dropped during the escape. Only a fraction of them still hold their elemental power. Figure out the fraction to unlock the final clue.

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:**

$1/10 \text{ of } 100 = \boxed{\phantom{00}}$

$3/6 \text{ of } 12 = \boxed{\phantom{00}}$

$1/8 \text{ of } 88 = \boxed{\phantom{00}}$

$1/3 \text{ of } 15 = \boxed{\phantom{00}}$

$1/2 \text{ of } 14 = \boxed{\phantom{00}}$

$2/8 \text{ of } 12 = \boxed{\phantom{00}}$

$3/10 \text{ of } 40 = \boxed{\phantom{00}}$

$2/4 \text{ of } 8 = \boxed{\phantom{00}}$

$2/10 \text{ of } 5 = \boxed{\phantom{00}}$

$1/3 \text{ of } 27 = \boxed{\phantom{00}}$

$4/8 \text{ of } 4 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain unravels the ancient puzzle door using a decoder ring, then unlocks the sacred chamber with the silver key.
2. The villain blinds the temple guardians with smoke bombs, then unlocks the sacred chamber with the silver key.
3. The villain blinds the temple guardians with smoke bombs, then navigates the hidden maze using the jade compass.
4. The villain hacks through the thick vines with a machete, then snatches the golden idol from the altar.
5. The villain unravels the ancient puzzle door using a decoder ring, then navigates the hidden maze using the jade compass.
6. The villain scales the steep stone walls using climbing spikes, then snatches the golden idol from the altar.
7. The villain swings across the temple chasm with a grappling hook, then navigates the hidden maze using the jade compass.
8. The villain unravels the ancient puzzle door using a decoder ring, then snatches the golden idol from the altar.
9. The villain hacks through the thick vines with a machete, then unlocks the sacred chamber with the silver key.
10. The villain blinds the temple guardians with smoke bombs, then projects a blinding light from the obsidian mirror.
11. The villain unravels the ancient puzzle door using a decoder ring, then unleashes the swarm from the ruby beetle.
12. The villain scales the steep stone walls using climbing spikes, then navigates the hidden maze using the jade compass.

# Answer Key

## The Whispering Jungle Heist

### Culprit: Maya Thorne

decoder ring · golden idol · uses right hand · dusty brown hair · allergic to pollen

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 8 → Clue 4 4 → Clue 5 1

### Clue 1 (Fractions of a number): "THE FOE DOES NOT HAVE THE JADE COMPASS"

$4/8$  of 112 = 56 (T) ·  $4/6$  of 42 = 28 (H) ·  $3/4$  of 36 = 27 (A) ·  $6/8$  of 32 = 24 (M) ·  $2/8$  of 124 = 31 (D) ·  $3/6$  of 68 = 34 (N) ·  $1/2$  of 24 = 12 (J) ·  $2/10$  of 30 = 6 (V) ·  $1/3$  of 126 = 42 (P) ·  $2/8$  of 64 = 16 (O) ·  $1/6$  of 126 = 21 (S) ·  $1/3$  of 78 = 26 (C) ·  $5/8$  of 56 = 35 (F) ·  $5/10$  of 20 = 10 (E)

### Clue 2 (Word problems): "USES RIGHT HAND"

There were 55 canteen. 24 were used up. How many canteen are left? = 31 (U) · Guide found 42 relic yesterday and 21 more today. How many relic in all? = 63 (H) · There were 114 torch. 14 were used up. How many torch are left? = 100 (G) · Guide found 3 backpack yesterday and 24 more today. How many backpack in all? = 27 (I) · Guide found 22 relic yesterday and 71 more today. How many relic in all? = 93 (R) · There were 141 relic. 21 were used up. How many relic are left? = 120 (S) · There were 34 relic. 8 were used up. How many relic are left? = 26 (E)

### Clue 3 (Integers): "A CLOUD OF FLOWER POLLEN MADE THE SNEAK FLEE"

$11 - (-9) = 20$  (A) ·  $(-15) + 24 = 9$  (M) ·  $4 - (-9) = 13$  (O) ·  $(-15) + 18 = 3$  (U) ·  $(-12) + 17 = 5$  (D) ·  $(-11) + 21 = 10$  (F) ·  $(-1) + 31 = 30$  (W) ·  $12 - (-11) = 23$  (L) ·  $(-4) + 16 = 12$  (H) ·  $(-11) + 38 = 27$  (E) ·  $(-1) + 5 = 4$  (C) ·  $(-13) + 38 = 25$  (P) ·  $10 - (-11) = 21$  (T) ·  $(-3) + 14 = 11$  (R) ·  $7 - (-8) = 15$  (K) ·  $(-11) + 18 = 7$  (N) ·  $(-3) + 4 = 1$  (S)

### Clue 4 (Percentages): "WE FOUND DUSTY BROWN HAIR ON THE JUNGLE VINE"

50% of 2 = 1 (W) · 5% of 500 = 25 (G) · 10% of 310 = 31 (J) · 25% of 204 = 51 (D) · 20% of 150 = 30 (H) · 50% of 56 = 28 (B) · 10% of 160 = 16 (O) · 75% of 36 = 27 (U) · 50% of 58 = 29 (R) · 25% of 56 = 14 (L) · 5% of 960 = 48 (T) · 25% of 140 = 35 (N) · 5% of 260 = 13 (V) · 10% of 120 = 12 (E) · 40% of 145 = 58 (A) · 20% of 85 = 17 (Y) · 10% of 150 = 15 (S) · 10% of 560 = 56 (I) · 75% of 28 = 21 (F)

### Clue 5 (Fractions of a number): surviving statement is box 8 → Maya Thorne

$1/10$  of 100 = 10 ·  $3/6$  of 12 = 6 ·  $1/8$  of 88 = 11 ·  $1/3$  of 15 = 5 ·  $1/2$  of 14 = 7 ·  $2/8$  of 12 = 3 ·  $3/10$  of 40 = 12 ·  $2/4$  of 8 = 4 ·  $2/10$  of 5 = 1 ·  $1/3$  of 27 = 9 ·  $4/8$  of 4 = 2