# The Golden Idol of Mist Cove

Grade 2 math · Addition, Rounding, Skip counting, Place value, Missing addends · Reading level grades 3-4

**Detective:** _____ **Date:** _____

Someone snuck into the ancient Sun Temple on Mist Cove Island and took the Golden Idol! Clues were left behind along the trail. Help the expedition crew decode the clues and identify the bandit before they leave 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 Temple Bandit is** _____

## Possible suspects

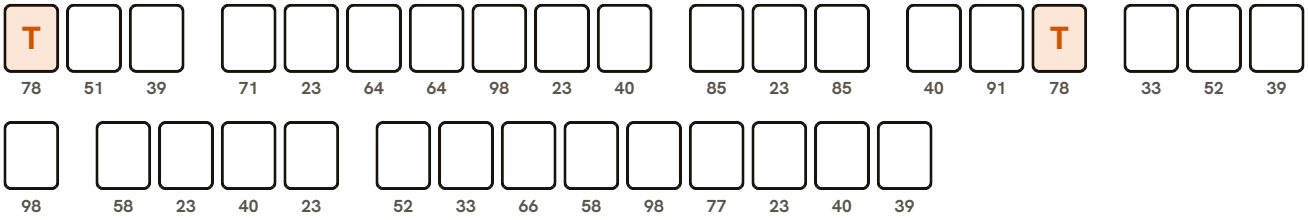
Cross off a row as each clue rules it out. The one left at the end is the culprit.

| NAME | EXPEDITION TOOL | SECRET DEVICE | WATCH WRIST | BANDANA COLOR | TRAP VULNERABILITY |
|---|---|---|---|---|---|
| **Pilot Max** | Lantern | Mini Submarine | Right Wrist Watch | Blue Bandana | Net Launcher |
| **Agent Zoe** | Signal Flare | Mini Submarine | Left Wrist Watch | Green Bandana | Mud Pit |
| **Tracker Rex** | Machete | Smoke Bomb | Left Wrist Watch | Blue Bandana | Net Launcher |
| **Searcher Cole** | Machete | Magnet Glove | Right Wrist Watch | Red Bandana | Snare Trap |
| **Captain Leo** | Lantern | Mini Submarine | Left Wrist Watch | Blue Bandana | Net Launcher |
| **Officer Ben** | Machete | Echo Locator | Right Wrist Watch | Green Bandana | Net Launcher |
| **Tracker Zac** | Machete | Magnet Glove | Right Wrist Watch | Blue Bandana | Net Launcher |
| **Professor Oak** | Signal Flare | Smoke Bomb | Left Wrist Watch | Green Bandana | Net Launcher |
| **Climber Mia** | Compass | Mini Submarine | Right Wrist Watch | Green Bandana | Net Launcher |
| **Scout Nora** | Signal Flare | Echo Locator | Left Wrist Watch | Blue Bandana | Mud Pit |
| **Ranger Owen** | Signal Flare | Mini Submarine | Right Wrist Watch | Red Bandana | Snare Trap |
| **Guide Kai** | Machete | Magnet Glove | Left Wrist Watch | Red Bandana | Snare Trap |
| **Guide Amy** | Machete | Magnet Glove | Right Wrist Watch | Green Bandana | Mud Pit |
| **Dr Lily** | Machete | Echo Locator | Right Wrist Watch | Red Bandana | Net Launcher |
| **Diver Ian** | Signal Flare | Glider Pack | Left Wrist Watch | Green Bandana | Mud Pit |
| **Botanist Ivy** | Machete | Smoke Bomb | Right Wrist Watch | Green Bandana | Net Launcher |
| **Trekker Finn** | Machete | Mini Submarine | Left Wrist Watch | Red Bandana | Mud Pit |
| **Explorer Jade** | Grappling Hook | Magnet Glove | Right Wrist Watch | Green Bandana | Net Launcher |
| **Surveyor Ruby** | Machete | Echo Locator | Left Wrist Watch | Green Bandana | Net Launcher |
| **Explorer Maya** | Signal Flare | Magnet Glove | Right Wrist Watch | Green Bandana | Net Launcher |
| **Navigator Eva** | Signal Flare | Magnet Glove | Left Wrist Watch | Green Bandana | Snare Trap |

## CLUE 1 Addition

> We tallied all the coconut supplies gathered by the team today.

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



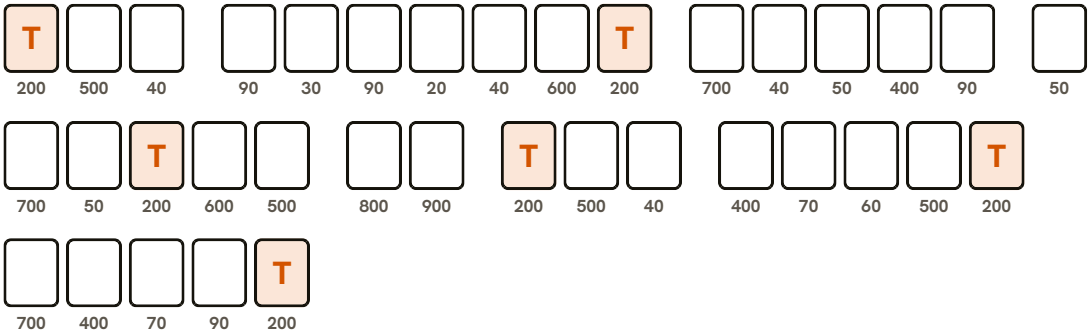

| | | |
|---|---|---|
| 46 + 32 = ☐ → T | 26 + 13 = ☐ → E | 22 + 30 = ☐ → S |
| 13 + 10 = ☐ → I | 29 + 37 = ☐ → B | 24 + 9 = ☐ → U |
| 64 + 27 = ☐ → O | 54 + 31 = ☐ → D | 17 + 23 = ☐ → N |
| 32 + 66 = ☐ → A | 28 + 36 = ☐ → L | 40 + 31 = ☐ → V |
| 18 + 40 = ☐ → M | 25 + 26 = ☐ → H | 51 + 26 = ☐ → R |

Scratch space:

## CLUE 2 Rounding

> The digital island radar only shows whole estimated mile markers.

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




Round 159 to the nearest hundred ☐ → T

Round 625 to the nearest hundred ☐ → C

Round 928 to the nearest hundred ☐ → N

Round 68 to the nearest ten ☐ → I

Round 24 to the nearest ten ☐ → P

Round 39 to the nearest ten ☐ → E

Round 47 to the nearest ten ☐ → A

Round 34 to the nearest ten ☐ → U

Round 90 to the nearest ten ☐ → S

Round 775 to the nearest hundred ☐ → O

Round 416 to the nearest hundred ☐ → R

Round 513 to the nearest hundred ☐ → H

Round 683 to the nearest hundred ☐ → W

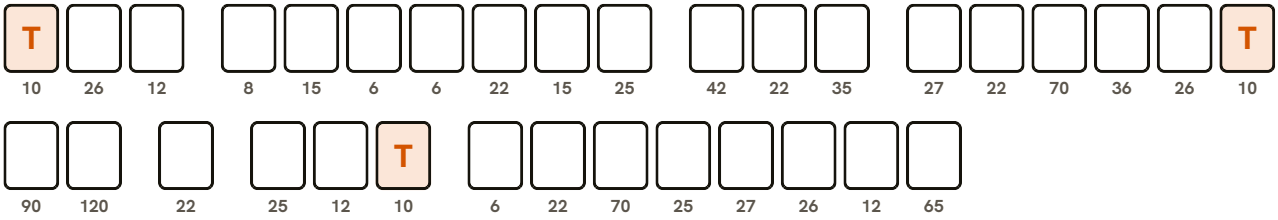
Round 57 to the nearest ten ☐ → G

Scratch space:

## CLUE 3 Skip counting

> We counted the ancient carved stone steps by twos up the hill.

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




Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 ☐ → **I**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 ☐ → **Y**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 ☐ → **C**

Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 ☐ → **E**

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 ☐ → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 ☐ → **U**

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

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **L**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 ☐ → **S**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 ☐ → **H**

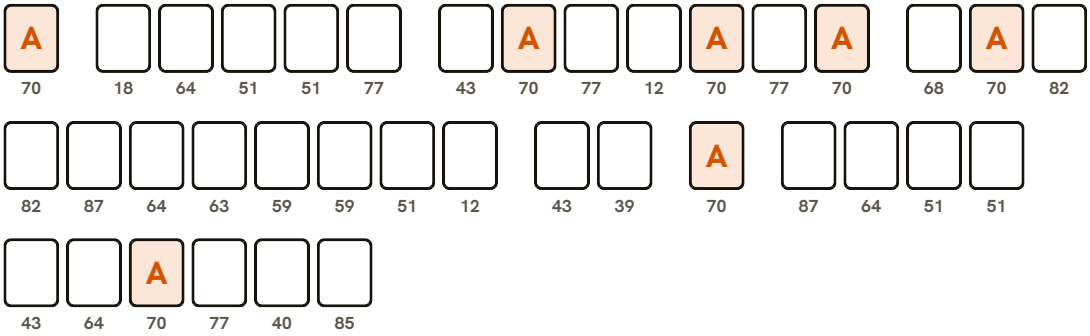
Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → **G**

Scratch space:

## CLUE 4 Place value

The temple door puzzle requires building a number with tens and ones.

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




What number has 7 tens and 0 ones? ☐ → A

What number has 6 tens and 4 ones? ☐ → R

What number has 5 tens and 9 ones? ☐ → P

What number has 1 ten and 8 ones? ☐ → G

What number has 8 tens and 7 ones? ☐ → T

What number has 3 tens and 9 ones? ☐ → Y

What number has 8 tens and 2 ones? ☐ → S

What number has 1 ten and 2 ones? ☐ → D

What number has 4 tens and 0 ones? ☐ → C

What number has 4 tens and 3 ones? ☐ → B

What number has 6 tens and 3 ones? ☐ → I

What number has 7 tens and 7 ones? ☐ → N

What number has 5 tens and 1 one? ☐ → E

What number has 8 tens and 5 ones? ☐ → H

What number has 6 tens and 8 ones? ☐ → W

Scratch space:

## CLUE 5 Missing addends - the last clue

> We found a partial list of golden coins and need to find what is missing.

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:**

| | | | |
|---|---|---|---|
| 2 + ___ = 6 ☐ | 10 + ___ = 21 ☐ | 2 + ___ = 8 ☐ | 3 + ___ = 15 ☐ |
| 4 + ___ = 14 ☐ | 10 + ___ = 19 ☐ | 1 + ___ = 8 ☐ | 8 + ___ = 9 ☐ |
| 10 + ___ = 12 ☐ | 1 + ___ = 9 ☐ | 8 + ___ = 11 ☐ | |

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

1. The villain used a machete to cut vines, then escaped underwater with a mini submarine.
2. The villain fired a signal flare into the sky, then escaped underwater with a mini submarine.
3. The villain lit up the cave with a lantern, then mapped the cave using an echo locator.
4. The villain used a machete to cut vines, then dropped a smoke bomb to vanish.
5. The villain used a machete to cut vines, then mapped the cave using an echo locator.
6. The villain swung across the gap with a grappling hook, then snatched the gold with a magnet glove.
7. The villain fired a signal flare into the sky, then mapped the cave using an echo locator.
8. The villain swung across the gap with a grappling hook, then dropped a smoke bomb to vanish.
9. The villain lit up the cave with a lantern, then dropped a smoke bomb to vanish.
10. The villain checked the ancient compass, then mapped the cave using an echo locator.
11. The villain fired a signal flare into the sky, then snatched the gold with a magnet glove.
12. The villain used a machete to cut vines, then snatched the gold with a magnet glove.

TEACHER / PARENT

# Answer Key

The Golden Idol of Mist Cove

## Culprit: Officer Ben

Machete · Echo Locator · Right Wrist Watch · Green Bandana · Net Launcher

Trail: Start 21 → Clue 1 15 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

### Clue 1 (Addition): "THE VILLAIN DID NOT USE A MINI SUBMARINE"

46 + 32 = 78 (T) · 26 + 13 = 39 (E) · 22 + 30 = 52 (S) · 13 + 10 = 23 (I) · 29 + 37 = 66 (B) · 24 + 9 = 33 (U) · 64 + 27 = 91 (O) · 54 + 31 = 85 (D) · 17 + 23 = 40 (N) · 32 + 66 = 98 (A) · 28 + 36 = 64 (L) · 40 + 31 = 71 (V) · 18 + 40 = 58 (M) · 25 + 26 = 51 (H) · 51 + 26 = 77 (R)

### Clue 2 (Rounding): "THE SUSPECT WEARS A WATCH ON THE RIGHT WRIST"

Round 159 to the nearest hundred = 200 (T) · Round 625 to the nearest hundred = 600 (C) · Round 928 to the nearest hundred = 900 (N) · Round 68 to the nearest ten = 70 (I) · Round 24 to the nearest ten = 20 (P) · Round 39 to the nearest ten = 40 (E) · Round 47 to the nearest ten = 50 (A) · Round 34 to the nearest ten = 30 (U) · Round 90 to the nearest ten = 90 (S) · Round 775 to the nearest hundred = 800 (O) · Round 416 to the nearest hundred = 400 (R) · Round 513 to the nearest hundred = 500 (H) · Round 683 to the nearest hundred = 700 (W) · Round 57 to the nearest ten = 60 (G)

### Clue 3 (Skip counting): "THE VILLAIN WAS CAUGHT BY A NET LAUNCHER"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 = 15 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (Y) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 = 12 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (B) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (V) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (G)

### Clue 4 (Place value): "A GREEN BANDANA WAS STRIPPED BY A TREE BRANCH"

What number has 7 tens and 0 ones? = 70 (A) · What number has 6 tens and 4 ones? = 64 (R) · What number has 5 tens and 9 ones? = 59 (P) · What number has 1 ten and 8 ones? = 18 (G) · What number has 8 tens and 7 ones? = 87 (T) · What number has 3 tens and 9 ones? = 39 (Y) · What number has 8 tens and 2 ones? = 82 (S) · What number has 1 ten and 2 ones? = 12 (D) · What number has 4 tens and 0 ones? = 40 (C) · What number has 4 tens and 3 ones? = 43 (B) · What number has 6 tens and 3 ones? = 63 (I) · What number has 7 tens and 7 ones? = 77 (N) · What number has 5 tens and 1 one? = 51 (E) · What number has 8 tens and 5 ones? = 85 (H) · What number has 6 tens and 8 ones? = 68 (W)

### Clue 5 (Missing addends): surviving statement is box 5 → Officer Ben

2 + ___ = 6 = 4 · 10 + ___ = 21 = 11 · 2 + ___ = 8 = 6 · 3 + ___ = 15 = 12 · 4 + ___ = 14 = 10 · 10 + ___ = 19 = 9 · 1 + ___ = 8 = 7 · 8 + ___ = 9 = 1 · 10 + ___ = 12 = 2 · 1 + ___ = 9 = 8 · 8 + ___ = 11 = 3