The Lost Idol of Canopy Camp

Grade 7 math · Addition, Subtraction, Multiplication, Skip counting, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Someone snuck into the expedition tent and made off with the ancient golden idol! Work through the camp logs and match the trail clues to unmask the culprit.

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 jungle intruder is _____

Possible suspects

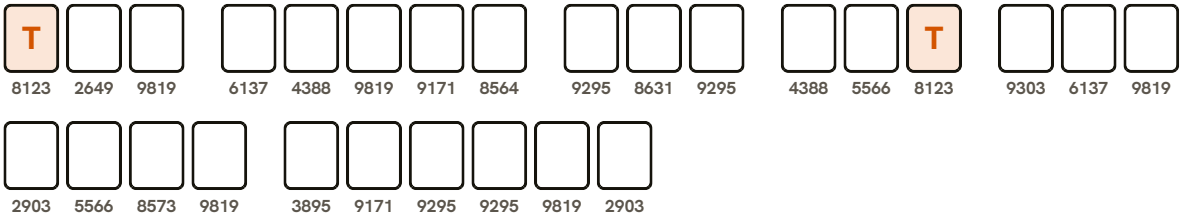
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	PRIMARY GEAR	SECONDARY TOOL	HABIT	BANDANA COLOR	TRAP TRIGGER
Owen Diaz	grappling hook	smoke pellet	wears digital watch on right wrist	crimson bandana	slippery mud
Mia Torres	compass dial	rope ladder	wears digital watch on right wrist	golden bandana	sneeze powder
Nora Hayes	compass dial	smoke pellet	wears digital watch on left wrist	golden bandana	slippery mud
Alex Rivera	compass dial	smoke pellet	wears digital watch on right wrist	crimson bandana	sneeze powder
Ethan Ross	decoder ring	rope ladder	wears digital watch on left wrist	golden bandana	snapping net
Harper Wood	decoder ring	pocket drone	wears digital watch on right wrist	golden bandana	sneeze powder
Liam Foster	machete blade	climbing boots	wears digital watch on left wrist	crimson bandana	snapping net
Lucas Gray	signal flare	pocket drone	wears digital watch on right wrist	golden bandana	slippery mud
Jack Snyder	compass dial	climbing boots	wears digital watch on right wrist	golden bandana	snapping net
Lily Adams	compass dial	smoke pellet	wears digital watch on left wrist	crimson bandana	slippery mud
Sam Chen	compass dial	headlamp ray	wears digital watch on right wrist	golden bandana	sneeze powder
Ava Reed	grappling hook	pocket drone	wears digital watch on left wrist	emerald bandana	slippery mud
Grace Hall	signal flare	pocket drone	wears digital watch on left wrist	emerald bandana	slippery mud
Zoe Vance	grappling hook	headlamp ray	wears digital watch on right wrist	crimson bandana	snapping net
Chloe Bennett	machete blade	smoke pellet	wears digital watch on left wrist	golden bandana	sneeze powder
Maya Patel	machete blade	pocket drone	wears digital watch on right wrist	golden bandana	sneeze powder
Caleb Young	compass dial	smoke pellet	wears digital watch on left wrist	crimson bandana	sneeze powder
Ella Kim	compass dial	climbing boots	wears digital watch on right wrist	crimson bandana	sneeze powder
Kai Tanaka	compass dial	smoke pellet	wears digital watch on right wrist	golden bandana	sneeze powder
Eli Stone	grappling hook	climbing boots	wears digital watch on left wrist	golden bandana	sneeze powder
Ruby Park	decoder ring	smoke pellet	wears digital watch on left wrist	crimson bandana	snapping net

CLUE 1 Addition

We counted the total ration bars found in both trail bags to find our first clue.

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



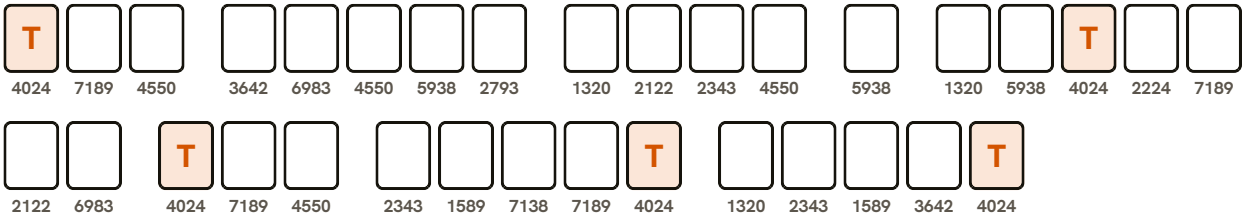
4528 + 3595 = ☐ → T	2652 + 5921 = ☐ → P	3761 + 1805 = ☐ → O
3919 + 4712 = ☐ → I	1449 + 2939 = ☐ → N	6328 + 2843 = ☐ → A
1650 + 1253 = ☐ → R	1094 + 1555 = ☐ → H	6045 + 3258 = ☐ → U
4682 + 5137 = ☐ → E	5227 + 3337 = ☐ → K	3229 + 2908 = ☐ → S
2095 + 1800 = ☐ → L	4616 + 4679 = ☐ → D	

Scratch space:

CLUE 2 Subtraction

We measured the missing length of map parchment after the suspect tore a piece off.

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



8187 - 4163 = ☐ → T

6765 - 4541 = ☐ → C

9459 - 2270 = ☐ → H

4017 - 2697 = ☐ → W

9044 - 3106 = ☐ → A

2590 - 247 = ☐ → R

7985 - 1002 = ☐ → N

5184 - 2391 = ☐ → K

3706 - 1584 = ☐ → O

12103 - 4965 = ☐ → G

7006 - 2456 = ☐ → E

4727 - 1085 = ☐ → S

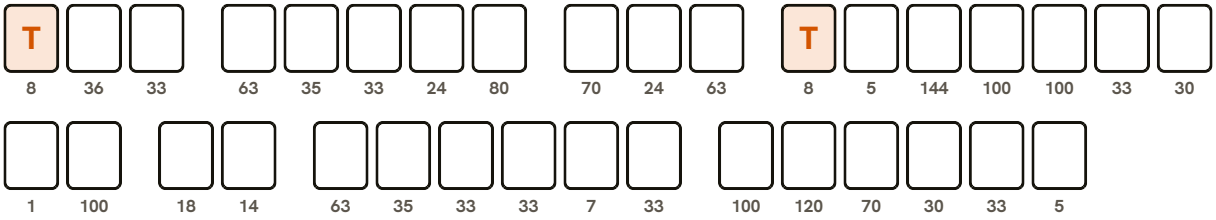
4726 - 3137 = ☐ → I

Scratch space:

CLUE 3 Multiplication facts (1-12)

> We checked four storage crates that each held equal rows of expedition supplies.

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



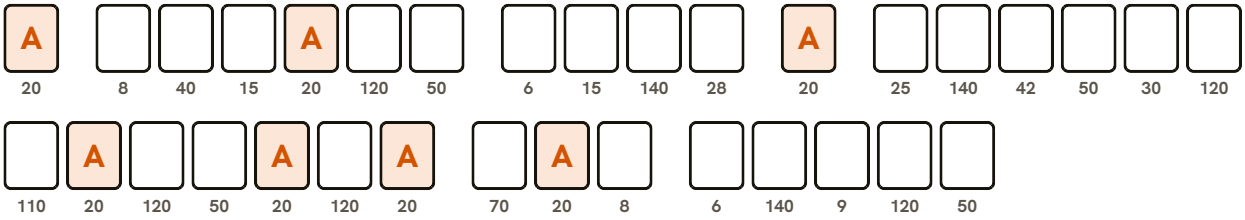
1 × 8 = ☐ → T	7 × 10 = ☐ → W	10 × 10 = ☐ → P
12 × 12 = ☐ → I	9 × 2 = ☐ → B	7 × 1 = ☐ → Z
1 × 1 = ☐ → U	10 × 8 = ☐ → K	6 × 4 = ☐ → A
4 × 9 = ☐ → H		
3 × 10 = ☐ → D	5 × 1 = ☐ → R	9 × 7 = ☐ → S
7 × 5 = ☐ → N		
10 × 12 = ☐ → O	3 × 11 = ☐ → E	7 × 2 = ☐ → Y

Scratch space:

CLUE 4 Skip counting

We tracked footmarks along the muddy trail that skipped equal paces across the riverbank.

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



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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 ☐ → **T**

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → **B**

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **U**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → **M**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, ___, 35, 40 ☐ → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → **O**

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

Scratch space:

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

> We shared the remaining battery packs equally among the five scout teams to power the scanners.

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:

120 ÷ 10 = ☐ | 28 ÷ 4 = ☐ | 11 ÷ 1 = ☐ | 96 ÷ 12 = ☐ | 18 ÷ 6 = ☐

7 ÷ 7 = ☐ | 40 ÷ 10 = ☐ | 63 ÷ 7 = ☐ | 50 ÷ 10 = ☐ | 36 ÷ 6 = ☐

20 ÷ 2 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain unlocked secrets with a decoder ring, then vanished behind a headlamp ray.
2. The villain tracked the path with a compass dial, then snuck off under a smoke pellet.
3. The villain tracked the path with a compass dial, then scouted ahead using a pocket drone.
4. The villain tracked the path with a compass dial, then swung away with a rope ladder.
5. The villain lit the canopy with a signal flare, then swung away with a rope ladder.
6. The villain cleared vines with a machete blade, then escaped using climbing boots.
7. The villain cleared vines with a machete blade, then scouted ahead using a pocket drone.
8. The villain unlocked secrets with a decoder ring, then swung away with a rope ladder.
9. The villain lit the canopy with a signal flare, then scouted ahead using a pocket drone.
10. The villain unlocked secrets with a decoder ring, then escaped using climbing boots.
11. The villain tracked the path with a compass dial, then vanished behind a headlamp ray.
12. The villain unlocked secrets with a decoder ring, then scouted ahead using a pocket drone.

TEACHER / PARENT

Answer Key

The Lost Idol of Canopy Camp

Culprit: Kai Tanaka

compass dial · smoke pellet · wears digital watch on right wrist · golden bandana · sneeze powder

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAK DID NOT USE ROPE LADDER"

4528 + 3595 = 8123 (T) · 2652 + 5921 = 8573 (P) · 3761 + 1805 = 5566 (O) · 3919 + 4712 = 8631 (I) · 1449 + 2939 = 4388 (N) · 6328 + 2843 = 9171 (A) · 1650 + 1253 = 2903 (R) · 1094 + 1555 = 2649 (H) · 6045 + 3258 = 9303 (U) · 4682 + 5137 = 9819 (E) · 5227 + 3337 = 8564 (K) · 3229 + 2908 = 6137 (S) · 2095 + 1800 = 3895 (L) · 4616 + 4679 = 9295 (D)

Clue 2 (Subtraction): "THE SNEAK WORE A WATCH ON THE RIGHT WRIST"

8187 - 4163 = 4024 (T) · 6765 - 4541 = 2224 (C) · 9459 - 2270 = 7189 (H) · 4017 - 2697 = 1320 (W) · 9044 - 3106 = 5938 (A) · 2590 - 247 = 2343 (R) · 7985 - 1002 = 6983 (N) · 5184 - 2391 = 2793 (K) · 3706 - 1584 = 2122 (O) · 12103 - 4965 = 7138 (G) · 7006 - 2456 = 4550 (E) · 4727 - 1085 = 3642 (S) · 4726 - 3137 = 1589 (I)

Clue 3 (Multiplication facts (1-12)): "THE SNEAK WAS TRIPPED UP BY SNEEZE POWDER"

1 × 8 = 8 (T) · 7 × 10 = 70 (W) · 10 × 10 = 100 (P) · 12 × 12 = 144 (I) · 9 × 2 = 18 (B) · 7 × 1 = 7 (Z) · 1 × 1 = 1 (U) · 10 × 8 = 80 (K) · 6 × 4 = 24 (A) · 4 × 9 = 36 (H) · 3 × 10 = 30 (D) · 5 × 1 = 5 (R) · 9 × 7 = 63 (S) · 7 × 5 = 35 (N) · 10 × 12 = 120 (O) · 3 × 11 = 33 (E) · 7 × 2 = 14 (Y)

Clue 4 (Skip counting): "A STRAND FROM A GOLDEN BANDANA WAS FOUND"

Skip-count by 5s. Fill the blank: 5, 10, 15, ___, 25, 30 = 20 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 = 40 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, ___, 55, 60 = 50 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (N) · Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 = 15 (R) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (L) · Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (M) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, ___, 35, 40 = 30 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Kai Tanaka

120 ÷ 10 = 12 · 28 ÷ 4 = 7 · 11 ÷ 1 = 11 · 96 ÷ 12 = 8 · 18 ÷ 6 = 3 · 7 ÷ 7 = 1 · 40 ÷ 10 = 4 · 63 ÷ 7 = 9 · 50 ÷ 10 = 5 · 36 ÷ 6 = 6 · 20 ÷ 2 = 10