Mystery of the Sun Temple Thief

Grade 4 math · Addition, Subtraction, Multiplication, Place value, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

A legendary golden artifact has been stolen from the ancient Sun Temple in the heart of the rainforest! The Head Curator needs your help to examine the trail of clues and unmask the sneaky Temple Thief before they escape 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 Temple Thief is _____

Possible suspects

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

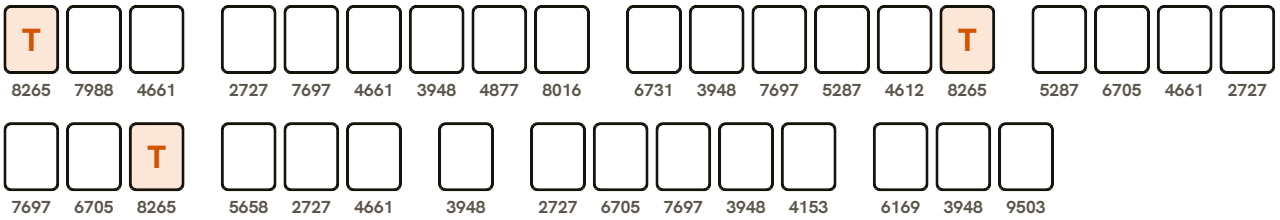
NAME	PRIMARY GEAR	SECONDARY TOOL	DOMINANT HAND	HAIRSTYLE	VULNERABILITY
Capt Leo	glider suit	laser torch	right handed	slick ponytail	loud noise
Zane West	iron shield	power winch	left handed	tight braid	cold water
Nora Finch	grappling hook	sonar map	left handed	tight braid	bright light
Axel Rhodes	smoke bomb	night goggles	right handed	slick ponytail	loud noise
Hugo Blake	glider suit	magnetic boots	right handed	slick ponytail	cold water
Tara Hayes	iron shield	laser torch	right handed	tight braid	bright light
Maya Croft	smoke bomb	night goggles	right handed	messy curls	loud noise
Felix Vance	grappling hook	night goggles	left handed	messy curls	bright light
Elena Cruz	smoke bomb	magnetic boots	right handed	messy curls	loud noise
Ruby Vance	smoke bomb	night goggles	right handed	slick ponytail	bright light
Chloe Park	grappling hook	magnetic boots	right handed	messy curls	bright light
Jade Rivera	grappling hook	power winch	right handed	tight braid	cold water
Owen Reed	iron shield	laser torch	right handed	slick ponytail	loud noise
Cole Mercer	iron shield	laser torch	left handed	tight braid	bright light
Milo Frost	smoke bomb	magnetic boots	left handed	tight braid	bright light
Sam Drake	rope launcher	power winch	right handed	tight braid	loud noise
Eli Sterling	rope launcher	power winch	right handed	slick ponytail	loud noise
Jax Wilder	rope launcher	night goggles	left handed	slick ponytail	loud noise
Anya Patel	smoke bomb	laser torch	right handed	tight braid	loud noise
Vera Thorne	grappling hook	magnetic boots	left handed	messy curls	loud noise
Finn Archer	iron shield	sonar map	right handed	slick ponytail	loud noise

make your own at mathcrackers.com

CLUE 1 Addition

> The expedition team gathered supply crates at the jungle base camp to count all the ropes and torches combined.

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



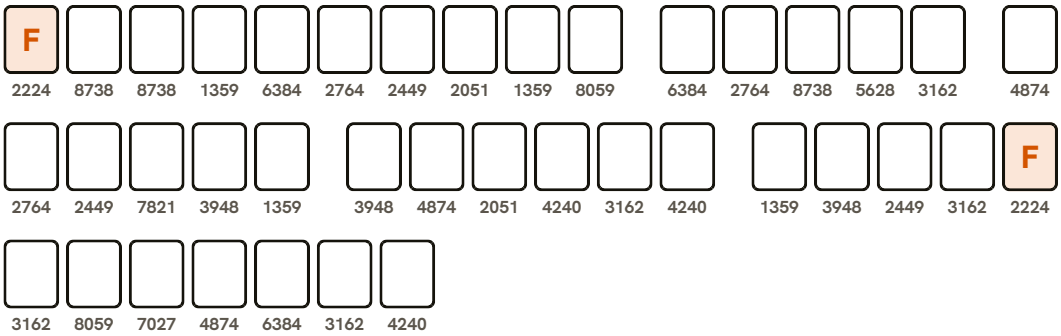
4491 + 3774 = ☐ → T	2595 + 2282 = ☐ → K	2637 + 4094 = ☐ → B
2440 + 2172 = ☐ → I	5173 + 2843 = ☐ → Y	3448 + 1839 = ☐ → D
2089 + 1859 = ☐ → A	4024 + 2145 = ☐ → M	1140 + 1587 = ☐ → S
2317 + 4388 = ☐ → O	1804 + 2349 = ☐ → R	2703 + 1958 = ☐ → E
4189 + 5314 = ☐ → P	4190 + 3798 = ☐ → H	5369 + 2328 = ☐ → N
2426 + 3232 = ☐ → U		

Scratch space:

CLUE 2 Subtraction

> Before trekking into the ruins, the guides subtracted damaged canteens from the main stash to see what remained.

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



4749 - 2525 = ☐ → F

8731 - 4783 = ☐ → H

4942 - 1780 = ☐ → E

2928 - 164 = ☐ → R

9538 - 1479 = ☐ → S

7347 - 2473 = ☐ → A

12426 - 4605 = ☐ → G

4818 - 578 = ☐ → D

9131 - 2747 = ☐ → P

10674 - 3647 = ☐ → C

8593 - 2965 = ☐ → V

2054 - 695 = ☐ → T

6658 - 4209 = ☐ → I

5780 - 3729 = ☐ → N

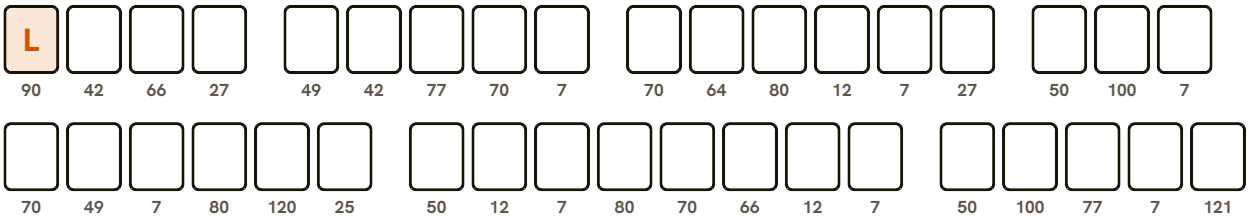
10973 - 2235 = ☐ → O

Scratch space:

CLUE 3 Multiplication facts (1-12)

> Inside the temple courtyard, the explorers counted rows of stone tiles to figure out the total number of floor traps.

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



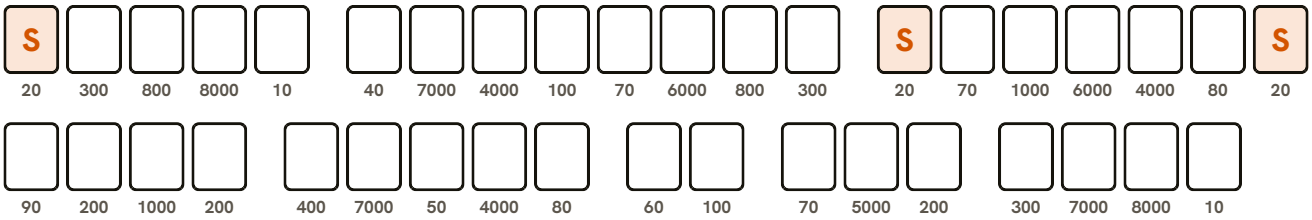
10 × 9 = ☐ → L	8 × 8 = ☐ → C	5 × 10 = ☐ → T
7 × 10 = ☐ → S	7 × 6 = ☐ → O	11 × 6 = ☐ → U
10 × 8 = ☐ → A	12 × 1 = ☐ → R	10 × 10 = ☐ → H
7 × 7 = ☐ → N	1 × 7 = ☐ → E	9 × 3 = ☐ → D
12 × 10 = ☐ → K	11 × 11 = ☐ → F	5 × 5 = ☐ → Y
7 × 11 = ☐ → I		

Scratch space:

CLUE 4 Place value

> Near the inner sanctuary, a stone dial displayed a numerical passcode based on place values carved into the wall.

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



What is the value of the 2 in 5,526? ☐ → S

What is the value of the 5 in 953? ☐ → U

What is the value of the 5 in 5,464? ☐ → H

What is the value of the 1 in 190? ☐ → Y

What is the value of the 8 in 813? ☐ → I

What is the value of the 4 in 4,766? ☐ → N

What is the value of the 8 in 8,226? ☐ → C

What is the value of the 8 in 189? ☐ → D

What is the value of the 7 in 370? ☐ → T

What is the value of the 9 in 4,195? ☐ → W

What is the value of the 6 in 463? ☐ → B

What is the value of the 7 in 7,349? ☐ → O

What is the value of the 2 in 7,209? ☐ → E

What is the value of the 1 in 1,489? ☐ → R

What is the value of the 3 in 305? ☐ → L

What is the value of the 4 in 2,436? ☐ → F

What is the value of the 4 in 5,545? ☐ → P

What is the value of the 6 in 6,487? ☐ → A

What is the value of the 1 in 5,215? ☐ → K

Scratch space:

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

> At the final campsite, the team split their remaining gold coins equally among the supply bags before leaving.

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:

25 ÷ 5 = ☐	120 ÷ 12 = ☐	72 ÷ 6 = ☐	20 ÷ 5 = ☐	108 ÷ 12 = ☐
10 ÷ 5 = ☐	22 ÷ 2 = ☐	7 ÷ 1 = ☐	30 ÷ 5 = ☐	3 ÷ 1 = ☐
8 ÷ 1 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain vanished in a cloud of smoke bomb dust, then scouted the dark corridor using night goggles.
2. The villain soared over the canopy using a glider suit, then scaled the steel door with magnetic boots.
3. The villain blocked the dart trap with an iron shield, then scaled the steel door with magnetic boots.
4. The villain soared over the canopy using a glider suit, then hoisted the heavy chest using a power winch.
5. The villain zipped up the cliff face with a rope launcher, then hoisted the heavy chest using a power winch.
6. The villain zipped up the cliff face with a rope launcher, then scaled the steel door with magnetic boots.
7. The villain vanished in a cloud of smoke bomb dust, then hoisted the heavy chest using a power winch.
8. The villain vanished in a cloud of smoke bomb dust, then melted the ancient lock using a laser torch.
9. The villain swung across the canyon with a grappling hook, then scanned the hidden passage using a sonar map.
10. The villain blocked the dart trap with an iron shield, then melted the ancient lock using a laser torch.
11. The villain vanished in a cloud of smoke bomb dust, then scanned the hidden passage using a sonar map.
12. The villain soared over the canopy using a glider suit, then melted the ancient lock using a laser torch.

TEACHER / PARENT

Answer Key

Mystery of the Sun Temple Thief

Culprit: Axel Rhodes

smoke bomb · night goggles · right handed · slick ponytail · loud noise

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY BANDIT DOES NOT USE A SONAR MAP"

4491 + 3774 = 8265 (T) · 2595 + 2282 = 4877 (K) · 2637 + 4094 = 6731 (B) · 2440 + 2172 = 4612 (I) · 5173 + 2843 = 8016 (Y) · 3448 + 1839 = 5287 (D) · 2089 + 1859 = 3948 (A) · 4024 + 2145 = 6169 (M) · 1140 + 1587 = 2727 (S) · 2317 + 4388 = 6705 (O) · 1804 + 2349 = 4153 (R) · 2703 + 1958 = 4661 (E) · 4189 + 5314 = 9503 (P) · 4190 + 3798 = 7988 (H) · 5369 + 2328 = 7697 (N) · 2426 + 3232 = 5658 (U)

Clue 2 (Subtraction): "FOOTPRINTS PROVE A RIGHT HANDED THIEF ESCAPED"

4749 - 2525 = 2224 (F) · 8731 - 4783 = 3948 (H) · 4942 - 1780 = 3162 (E) · 2928 - 164 = 2764 (R) · 9538 - 1479 = 8059 (S) · 7347 - 2473 = 4874 (A) · 12426 - 4605 = 7821 (G) · 4818 - 578 = 4240 (D) · 9131 - 2747 = 6384 (P) · 10674 - 3647 = 7027 (C) · 8593 - 2965 = 5628 (V) · 2054 - 695 = 1359 (T) · 6658 - 4209 = 2449 (I) · 5780 - 3729 = 2051 (N) · 10973 - 2235 = 8738 (O)

Clue 3 (Multiplication facts (1-12)): "LOUD NOISE SCARED THE SNEAKY TREASURE THIEF"

10 × 9 = 90 (L) · 8 × 8 = 64 (C) · 5 × 10 = 50 (T) · 7 × 10 = 70 (S) · 7 × 6 = 42 (O) · 11 × 6 = 66 (U) · 10 × 8 = 80 (A) · 12 × 1 = 12 (R) · 10 × 10 = 100 (H) · 7 × 7 = 49 (N) · 1 × 7 = 7 (E) · 9 × 3 = 27 (D) · 12 × 10 = 120 (K) · 11 × 11 = 121 (F) · 5 × 5 = 25 (Y) · 7 × 11 = 77 (I)

Clue 4 (Place value): "SLICK PONYTAIL STRANDS WERE FOUND BY THE LOCK"

What is the value of the 2 in 5,526? = 20 (S) · What is the value of the 5 in 953? = 50 (U) · What is the value of the 5 in 5,464? = 5000 (H) · What is the value of the 1 in 190? = 100 (Y) · What is the value of the 8 in 813? = 800 (I) · What is the value of the 4 in 4,766? = 4000 (N) · What is the value of the 8 in 8,226? = 8000 (C) · What is the value of the 8 in 189? = 80 (D) · What is the value of the 7 in 370? = 70 (T) · What is the value of the 9 in 4,195? = 90 (W) · What is the value of the 6 in 463? = 60 (B) · What is the value of the 7 in 7,349? = 7000 (O) · What is the value of the 2 in 7,209? = 200 (E) · What is the value of the 1 in 1,489? = 1000 (R) · What is the value of the 3 in 305? = 300 (L) · What is the value of the 4 in 2,436? = 400 (F) · What is the value of the 4 in 5,545? = 40 (P) · What is the value of the 6 in 6,487? = 6000 (A) · What is the value of the 1 in 5,215? = 10 (K)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Axel Rhodes

25 ÷ 5 = 5 · 120 ÷ 12 = 10 · 72 ÷ 6 = 12 · 20 ÷ 5 = 4 · 108 ÷ 12 = 9 · 10 ÷ 5 = 2 · 22 ÷ 2 = 11 · 7 ÷ 1 = 7 · 30 ÷ 5 = 6 · 3 ÷ 1 = 3 · 8 ÷ 1 = 8