Mystery of the Sunken Sun Stone

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

Detective: _____ **Date:** _____

Someone broke into the inner vault of the Temple of the Golden Jaguar and snatched the ancient Sun Stone! Dr Aris Thorne needs your detective skills to decode clues, analyze trail markers, and unmask the thief before they flee 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 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	GEAR	GADGET	ACCESSORY	HELMET COLOR	WEAKNESS
Dash Wilder	Night Goggles	Pocket Drill	Compass Watch	Blue Helmet	Loud Whistle
Zoe Thorne	Glider Wings	Pocket Drill	Solar Badge	Silver Helmet	Bright Flash
Hugo Vance	Smoke Bombs	Stealth Camo	Solar Badge	Gold Helmet	Bright Flash
Zack Vance	Smoke Bombs	Turbo Jetpack	Solar Badge	Blue Helmet	Bright Flash
Kobe Brooks	Smoke Bombs	Armored Buggy	Solar Badge	Blue Helmet	Bright Flash
Talia Frost	Grappling Hook	Turbo Jetpack	Solar Badge	Blue Helmet	Bright Flash
Gabe Mercer	Grappling Hook	Turbo Jetpack	Compass Watch	Blue Helmet	Bright Flash
Sienna West	Night Goggles	Stealth Camo	Solar Badge	Gold Helmet	Loud Whistle
Sam Rivers	Sound Blaster	Armored Buggy	Compass Watch	Gold Helmet	Sticky Foam
Mason Reed	Grappling Hook	Stealth Camo	Compass Watch	Silver Helmet	Bright Flash
Maya Lin	Glider Wings	Turbo Jetpack	Compass Watch	Gold Helmet	Bright Flash
Ruby Sparks	Night Goggles	Hover Drone	Solar Badge	Blue Helmet	Bright Flash
Nora Stone	Night Goggles	Turbo Jetpack	Compass Watch	Silver Helmet	Bright Flash
Elena Cruz	Grappling Hook	Hover Drone	Solar Badge	Blue Helmet	Bright Flash
Professor Bram	Night Goggles	Stealth Camo	Solar Badge	Blue Helmet	Loud Whistle
Lila Vance	Grappling Hook	Stealth Camo	Solar Badge	Silver Helmet	Sticky Foam
Leo Drake	Glider Wings	Turbo Jetpack	Solar Badge	Silver Helmet	Bright Flash
Felix Sterling	Smoke Bombs	Pocket Drill	Solar Badge	Gold Helmet	Bright Flash
Ivy Chen	Glider Wings	Pocket Drill	Solar Badge	Blue Helmet	Sticky Foam
Oscar Finch	Glider Wings	Stealth Camo	Compass Watch	Gold Helmet	Sticky Foam
Chloe Park	Night Goggles	Stealth Camo	Compass Watch	Blue Helmet	Sticky Foam

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CLUE 1 Addition

We need to tally up all the jungle trail markers discovered by our scouts today.

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



2231 + 4244 = ☐ → T

1460 + 2108 = ☐ → N

3187 + 5607 = ☐ → M

3292 + 6436 = ☐ → G

1603 + 1810 = ☐ → V

5670 + 4080 = ☐ → R

907 + 1957 = ☐ → I

2614 + 4226 = ☐ → U

1043 + 1298 = ☐ → E

1994 + 2151 = ☐ → D

4142 + 2839 = ☐ → O

4898 + 2417 = ☐ → H

2707 + 1769 = ☐ → A

3252 + 3172 = ☐ → Y

2119 + 3124 = ☐ → L

2191 + 4734 = ☐ → B

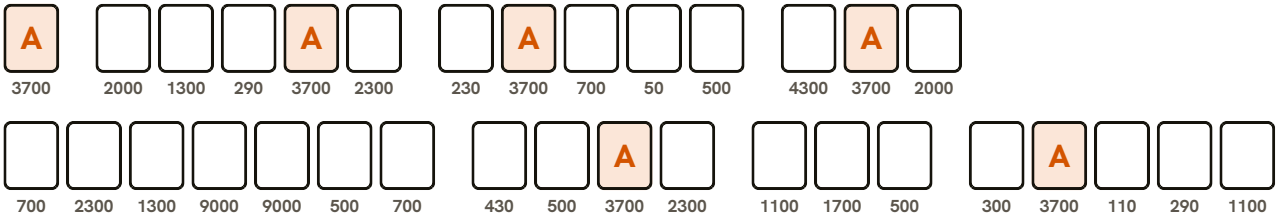
5203 + 3402 = ☐ → S

Scratch space:

CLUE 2 Rounding

The sensor array on the expedition helicopter only displays rounded distance readings.

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



Round 3,682 to the nearest hundred ☐ → **A**

Round 2,315 to the nearest hundred ☐ → **R**

Round 109 to the nearest ten ☐ → **U**

Round 4,260 to the nearest hundred ☐ → **W**

Round 1,074 to the nearest hundred ☐ → **T**

Round 433 to the nearest ten ☐ → **N**

Round 2,086 to the nearest thousand ☐ → **S**

Round 50 to the nearest ten ☐ → **G**

Round 510 to the nearest hundred ☐ → **E**

Round 230 to the nearest ten ☐ → **B**

Round 1,252 to the nearest hundred ☐ → **O**

Round 1,684 to the nearest hundred ☐ → **H**

Round 715 to the nearest hundred ☐ → **D**

Round 290 to the nearest ten ☐ → **L**

Round 257 to the nearest hundred ☐ → **V**

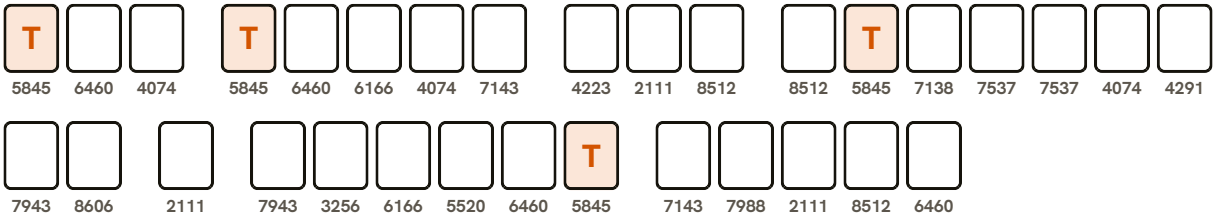
Round 9,067 to the nearest thousand ☐ → **P**

Scratch space:

CLUE 3 Subtraction

> Let us calculate how many supplies remain in the temple storehouse after the raid.

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



5862 - 17 = ☐ → T

9903 - 2366 = ☐ → N

7990 - 2470 = ☐ → G

11884 - 3278 = ☐ → Y

11964 - 4021 = ☐ → B

6482 - 2259 = ☐ → W

7526 - 4270 = ☐ → R

9294 - 1306 = ☐ → L

9224 - 2764 = ☐ → H

7330 - 1164 = ☐ → I

11805 - 4667 = ☐ → U

12762 - 4250 = ☐ → S

8335 - 1192 = ☐ → F

5310 - 3199 = ☐ → A

6273 - 2199 = ☐ → E

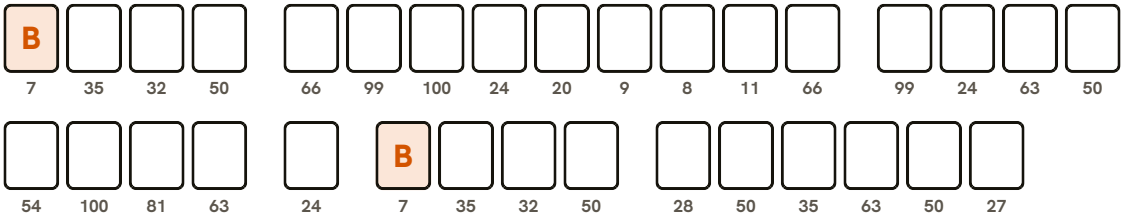
7478 - 3187 = ☐ → D

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The team found organized rows of artifact crates stacked neatly in the jungle camp.

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



7 × 1 = ☐ → B	3 × 3 = ☐ → I	7 × 9 = ☐ → M	1 × 8 = ☐ → N
5 × 7 = ☐ → L	5 × 10 = ☐ → E	11 × 9 = ☐ → C	
10 × 10 = ☐ → R	4 × 6 = ☐ → A	6 × 9 = ☐ → F	
9 × 9 = ☐ → O	11 × 1 = ☐ → G	11 × 6 = ☐ → S	
4 × 8 = ☐ → U	4 × 7 = ☐ → H	5 × 4 = ☐ → P	9 × 3 = ☐ → T

Scratch space:

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

> We must divide the remaining expedition rations equally among all field researchers.

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:

6 ÷ 3 = ☐	7 ÷ 1 = ☐	48 ÷ 12 = ☐	21 ÷ 7 = ☐	12 ÷ 1 = ☐
30 ÷ 6 = ☐	110 ÷ 11 = ☐	4 ÷ 4 = ☐	22 ÷ 2 = ☐	60 ÷ 10 = ☐
40 ÷ 5 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain scouted the dark corridor using night goggles, then drilled through the stone slab with a pocket drill.
2. The villain scouted the dark corridor using night goggles, then scouted ahead using a hover drone.
3. The villain blasted the stone door open with a sound blaster, then scouted ahead using a hover drone.
4. The villain scaled the temple wall with a grappling hook, then zoomed up the ravine with a turbo jetpack.
5. The villain scouted the dark corridor using night goggles, then zoomed up the ravine with a turbo jetpack.
6. The villain glided across the canopy with glider wings, then escaped through the muddy track in an armored buggy.
7. The villain scaled the temple wall with a grappling hook, then scouted ahead using a hover drone.
8. The villain blasted the stone door open with a sound blaster, then drilled through the stone slab with a pocket drill.
9. The villain vanished behind thick smoke bombs, then zoomed up the ravine with a turbo jetpack.
10. The villain scaled the temple wall with a grappling hook, then drilled through the stone slab with a pocket drill.
11. The villain vanished behind thick smoke bombs, then slipped past the guards in stealth camo.
12. The villain glided across the canopy with glider wings, then drilled through the stone slab with a pocket drill.

TEACHER / PARENT

Answer Key

Mystery of the Sunken Sun Stone

Culprit: Zack Vance

Smoke Bombs · Turbo Jetpack · Solar Badge · Blue Helmet · Bright Flash

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE THE ARMORED BUGGY"

2231 + 4244 = 6475 (T) · 1460 + 2108 = 3568 (N) · 3187 + 5607 = 8794 (M) · 3292 + 6436 = 9728 (G) · 1603 + 1810 = 3413 (V) · 5670 + 4080 = 9750 (R) · 907 + 1957 = 2864 (I) · 2614 + 4226 = 6840 (U) · 1043 + 1298 = 2341 (E) · 1994 + 2151 = 4145 (D) · 4142 + 2839 = 6981 (O) · 4898 + 2417 = 7315 (H) · 2707 + 1769 = 4476 (A) · 3252 + 3172 = 6424 (Y) · 2119 + 3124 = 5243 (L) · 2191 + 4734 = 6925 (B) · 5203 + 3402 = 8605 (S)

Clue 2 (Rounding): "A SOLAR BADGE WAS DROPPED NEAR THE VAULT"

Round 3,682 to the nearest hundred = 3700 (A) · Round 2,315 to the nearest hundred = 2300 (R) · Round 109 to the nearest ten = 110 (U) · Round 4,260 to the nearest hundred = 4300 (W) · Round 1,074 to the nearest hundred = 1100 (T) · Round 433 to the nearest ten = 430 (N) · Round 2,086 to the nearest thousand = 2000 (S) · Round 50 to the nearest ten = 50 (G) · Round 510 to the nearest hundred = 500 (E) · Round 230 to the nearest ten = 230 (B) · Round 1,252 to the nearest hundred = 1300 (O) · Round 1,684 to the nearest hundred = 1700 (H) · Round 715 to the nearest hundred = 700 (D) · Round 290 to the nearest ten = 290 (L) · Round 257 to the nearest hundred = 300 (V) · Round 9,067 to the nearest thousand = 9000 (P)

Clue 3 (Subtraction): "THE THIEF WAS STUNNED BY A BRIGHT FLASH"

5862 - 17 = 5845 (T) · 9903 - 2366 = 7537 (N) · 7990 - 2470 = 5520 (G) · 11884 - 3278 = 8606 (Y) · 11964 - 4021 = 7943 (B) · 6482 - 2259 = 4223 (W) · 7526 - 4270 = 3256 (R) · 9294 - 1306 = 7988 (L) · 9224 - 2764 = 6460 (H) · 7330 - 1164 = 6166 (I) · 11805 - 4667 = 7138 (U) · 12762 - 4250 = 8512 (S) · 8335 - 1192 = 7143 (F) · 5310 - 3199 = 2111 (A) · 6273 - 2199 = 4074 (E) · 7478 - 3187 = 4291 (D)

Clue 4 (Multiplication facts (1-12)): "BLUE SCRAPINGS CAME FROM A BLUE HELMET"

7 × 1 = 7 (B) · 3 × 3 = 9 (I) · 7 × 9 = 63 (M) · 1 × 8 = 8 (N) · 5 × 7 = 35 (L) · 5 × 10 = 50 (E) · 11 × 9 = 99 (C) · 10 × 10 = 100 (R) · 4 × 6 = 24 (A) · 6 × 9 = 54 (F) · 9 × 9 = 81 (O) · 11 × 1 = 11 (G) · 11 × 6 = 66 (S) · 4 × 8 = 32 (U) · 4 × 7 = 28 (H) · 5 × 4 = 20 (P) · 9 × 3 = 27 (T)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Zack Vance

6 ÷ 3 = 2 · 7 ÷ 1 = 7 · 48 ÷ 12 = 4 · 21 ÷ 7 = 3 · 12 ÷ 1 = 12 · 30 ÷ 6 = 5 · 110 ÷ 11 = 10 · 4 ÷ 4 = 1 · 22 ÷ 2 = 11 · 60 ÷ 10 = 6 · 40 ÷ 5 = 8