The Lost Sapphire of Sun Temple

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone swiped the Golden Sun Sapphire from the camp tent during the jungle expedition! Detective, examine the clues around the ruins 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 Rogue Explorer is _____

Possible suspects

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

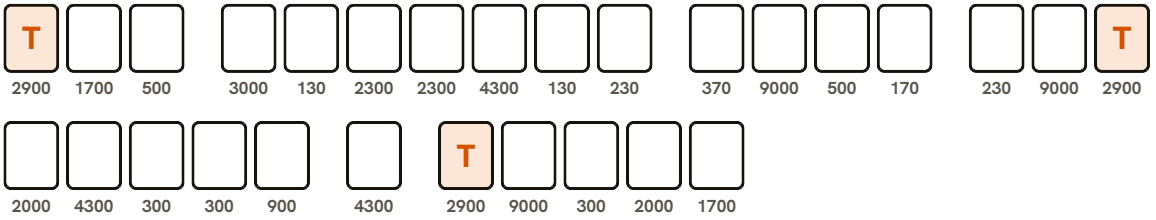
NAME	SPECIAL GEAR	JUNGLE TOOL	DOMINANT HAND	HAT STYLE	SECRET FEAR
Phileas Fogg	Map Scroll	Torch	Left Handed	Red Bandana	Scared Of Snakes
Rick OConnell	Grappling Hook	Rope Ladder	Right Handed	Brown Fedora	Scared Of Bats
Carmen Sandiego	Brass Compass	Machete	Left Handed	Red Bandana	Scared Of Spiders
James Cook	Brass Compass	Rope Ladder	Right Handed	Brown Fedora	Scared Of Spiders
Diego Marquez	Decoder Ring	Torch	Right Handed	Pith Helmet	Scared Of Snakes
Flynn Rider	Signal Flare	Machete	Left Handed	Brown Fedora	Scared Of Spiders
Ernest Shackleton	Grappling Hook	Smoke Bomb	Left Handed	Brown Fedora	Scared Of Bats
Evie Carnahan	Grappling Hook	Torch	Left Handed	Brown Fedora	Scared Of Spiders
Tenzing Norgay	Signal Flare	Rope Ladder	Right Handed	Red Bandana	Scared Of Bats
Jacques Cousteau	Signal Flare	Smoke Bomb	Left Handed	Brown Fedora	Scared Of Bats
Roald Amundsen	Map Scroll	Torch	Right Handed	Red Bandana	Scared Of Spiders
Dora Marquez	Brass Compass	Machete	Left Handed	Brown Fedora	Scared Of Spiders
Marco Polo	Grappling Hook	Binoculars	Left Handed	Brown Fedora	Scared Of Spiders
Indiana Jones	Brass Compass	Rope Ladder	Right Handed	Brown Fedora	Scared Of Bats
Sacagawea	Brass Compass	Rope Ladder	Left Handed	Pith Helmet	Scared Of Spiders
Meriwether Lewis	Map Scroll	Smoke Bomb	Left Handed	Brown Fedora	Scared Of Spiders
Leif Erikson	Signal Flare	Torch	Left Handed	Red Bandana	Scared Of Snakes
Nathan Drake	Brass Compass	Rope Ladder	Right Handed	Pith Helmet	Scared Of Snakes
Jack Sparrow	Decoder Ring	Smoke Bomb	Left Handed	Red Bandana	Scared Of Bats
William Clark	Signal Flare	Machete	Right Handed	Pith Helmet	Scared Of Spiders
Edmund Hillary	Decoder Ring	Smoke Bomb	Left Handed	Brown Fedora	Scared Of Snakes

make your own at mathcrackers.com

CLUE 1 Rounding

> The temple radar scanner only displays distances rounded to the nearest ten.

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



Round 2,939 to the nearest hundred ☐ → **T**

Round 132 to the nearest ten ☐ → **I**

Round 870 to the nearest hundred ☐ → **Y**

Round 303 to the nearest hundred ☐ → **R**

Round 370 to the nearest ten ☐ → **D**

Round 3,056 to the nearest thousand ☐ → **V**

Round 476 to the nearest hundred ☐ → **E**

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

Round 4,347 to the nearest hundred ☐ → **A**

Round 228 to the nearest ten ☐ → **N**

Round 9,238 to the nearest thousand ☐ → **O**

Round 172 to the nearest ten ☐ → **S**

Round 1,808 to the nearest thousand ☐ → **C**

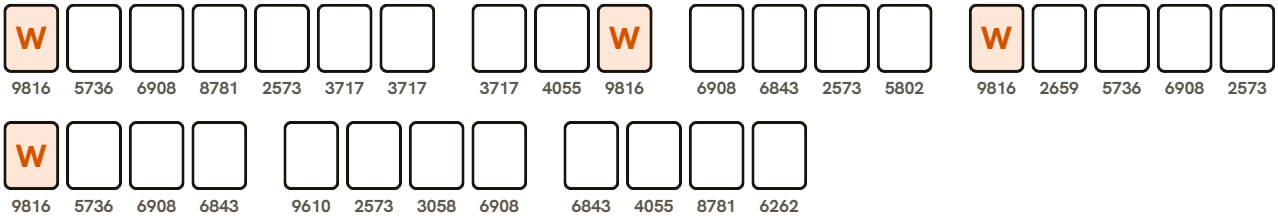
Round 2,321 to the nearest hundred ☐ → **L**

Scratch space:

CLUE 2 Addition

We tallied up all the ancient gold coins found in the camp supply boxes.

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



5399 + 4417 = ☐ → W

1443 + 1130 = ☐ → E

5031 + 4579 = ☐ → L

4755 + 2153 = ☐ → T

2540 + 3722 = ☐ → D

3832 + 3011 = ☐ → H

1767 + 892 = ☐ → R

1567 + 1491 = ☐ → F

2738 + 6043 = ☐ → N

2105 + 1612 = ☐ → S

1883 + 2172 = ☐ → A

3013 + 2789 = ☐ → M

2197 + 3539 = ☐ → I

Scratch space:

CLUE 3 Subtraction

> We compared the total energy crystals left in the generator after the theft.

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



4927 - 2134 = ☐ → H

10856 - 4568 = ☐ → A

4291 - 2481 = ☐ → R

7697 - 2985 = ☐ → O

2188 - 416 = ☐ → D

8940 - 3165 = ☐ → M

7757 - 4618 = ☐ → E

7555 - 2510 = ☐ → S

6747 - 3726 = ☐ → B

8294 - 1938 = ☐ → W

6001 - 772 = ☐ → I

3809 - 1508 = ☐ → P

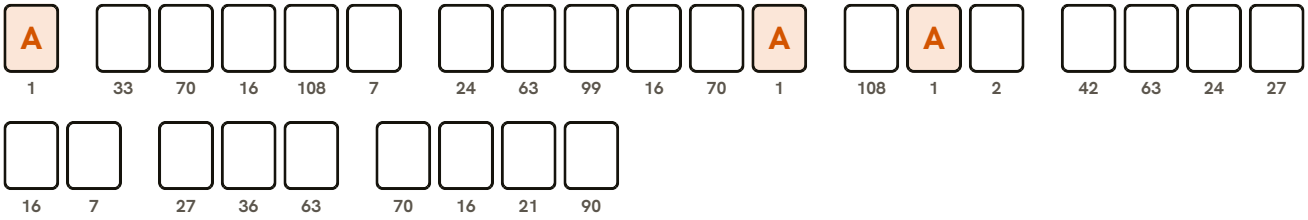
8223 - 413 = ☐ → T

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The team arranged the jungle trail markers into equal rows to count them.

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



1 × 1 = ☐ → A	9 × 3 = ☐ → T	3 × 11 = ☐ → B	9 × 7 = ☐ → E
10 × 9 = ☐ → K	2 × 1 = ☐ → S	8 × 2 = ☐ → O	
10 × 7 = ☐ → R	7 × 1 = ☐ → N	3 × 7 = ☐ → C	
11 × 9 = ☐ → D	6 × 6 = ☐ → H	2 × 12 = ☐ → F	
6 × 7 = ☐ → L	12 × 9 = ☐ → W		

Scratch space:

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

> We split the rescue rations equally among all five camp tents.

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:

36 ÷ 4 = ☐ | 88 ÷ 8 = ☐ | 70 ÷ 10 = ☐ | 30 ÷ 5 = ☐ | 16 ÷ 8 = ☐

6 ÷ 6 = ☐ | 48 ÷ 4 = ☐ | 10 ÷ 2 = ☐ | 72 ÷ 9 = ☐ | 32 ÷ 8 = ☐

120 ÷ 12 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain decoded the secret temple symbols, then cleared vines with a sharp machete.
2. The villain consulted the ancient map scroll, then scouted ahead with binoculars.
3. The villain consulted the ancient map scroll, then vanished behind a thick smoke bomb.
4. The villain fired a signal flare into the sky, then lit up the tunnel with a bright torch.
5. The villain checked directions with a brass compass, then climbed down a rope ladder.
6. The villain consulted the ancient map scroll, then climbed down a rope ladder.
7. The villain swung across the pit with a grappling hook, then scouted ahead with binoculars.
8. The villain swung across the pit with a grappling hook, then cleared vines with a sharp machete.
9. The villain checked directions with a brass compass, then cleared vines with a sharp machete.
10. The villain consulted the ancient map scroll, then cleared vines with a sharp machete.
11. The villain fired a signal flare into the sky, then cleared vines with a sharp machete.
12. The villain decoded the secret temple symbols, then vanished behind a thick smoke bomb.

TEACHER / PARENT

Answer Key

The Lost Sapphire of Sun Temple

Culprit: Meriwether Lewis

Map Scroll · Smoke Bomb · Left Handed · Brown Fedora · Scared Of Spiders

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT CARRY A TORCH"

Round 2,939 to the nearest hundred = 2900 (T) · Round 132 to the nearest ten = 130 (I) · Round 870 to the nearest hundred = 900 (Y) · Round 303 to the nearest hundred = 300 (R) · Round 370 to the nearest ten = 370 (D) · Round 3,056 to the nearest thousand = 3000 (V) · Round 476 to the nearest hundred = 500 (E) · Round 1,684 to the nearest hundred = 1700 (H) · Round 4,347 to the nearest hundred = 4300 (A) · Round 228 to the nearest ten = 230 (N) · Round 9,238 to the nearest thousand = 9000 (O) · Round 172 to the nearest ten = 170 (S) · Round 1,808 to the nearest thousand = 2000 (C) · Round 2,321 to the nearest hundred = 2300 (L)

Clue 2 (Addition): "WITNESS SAW THEM WRITE WITH LEFT HAND"

5399 + 4417 = 9816 (W) · 1443 + 1130 = 2573 (E) · 5031 + 4579 = 9610 (L) · 4755 + 2153 = 6908 (T) · 2540 + 3722 = 6262 (D) · 3832 + 3011 = 6843 (H) · 1767 + 892 = 2659 (R) · 1567 + 1491 = 3058 (F) · 2738 + 6043 = 8781 (N) · 2105 + 1612 = 3717 (S) · 1883 + 2172 = 4055 (A) · 3013 + 2789 = 5802 (M) · 2197 + 3539 = 5736 (I)

Clue 3 (Subtraction): "HERO THREW A SPIDER WEB TO STOP THEM"

4927 - 2134 = 2793 (H) · 10856 - 4568 = 6288 (A) · 4291 - 2481 = 1810 (R) · 7697 - 2985 = 4712 (O) · 2188 - 416 = 1772 (D) · 8940 - 3165 = 5775 (M) · 7757 - 4618 = 3139 (E) · 7555 - 2510 = 5045 (S) · 6747 - 3726 = 3021 (B) · 8294 - 1938 = 6356 (W) · 6001 - 772 = 5229 (I) · 3809 - 1508 = 2301 (P) · 8223 - 413 = 7810 (T)

Clue 4 (Multiplication facts (1-12)): "A BROWN FEDORA WAS LEFT ON THE ROCK"

1 × 1 = 1 (A) · 9 × 3 = 27 (T) · 3 × 11 = 33 (B) · 9 × 7 = 63 (E) · 10 × 9 = 90 (K) · 2 × 1 = 2 (S) · 8 × 2 = 16 (O) · 10 × 7 = 70 (R) · 7 × 1 = 7 (N) · 3 × 7 = 21 (C) · 11 × 9 = 99 (D) · 6 × 6 = 36 (H) · 2 × 12 = 24 (F) · 6 × 7 = 42 (L) · 12 × 9 = 108 (W)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Meriwether Lewis

36 ÷ 4 = 9 · 88 ÷ 8 = 11 · 70 ÷ 10 = 7 · 30 ÷ 5 = 6 · 16 ÷ 8 = 2 · 6 ÷ 6 = 1 · 48 ÷ 4 = 12 · 10 ÷ 2 = 5 · 72 ÷ 9 = 8 · 32 ÷ 8 = 4 · 120 ÷ 12 = 10