The Mystery of the Lost Temple Key

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

Detective: _____ **Date:** _____

Someone snuck into the Sunken Jungle Temple and swiped the golden sun key! Help the expedition team analyze the clues and catch the intruder.

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 Traitor is _____

Possible suspects

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

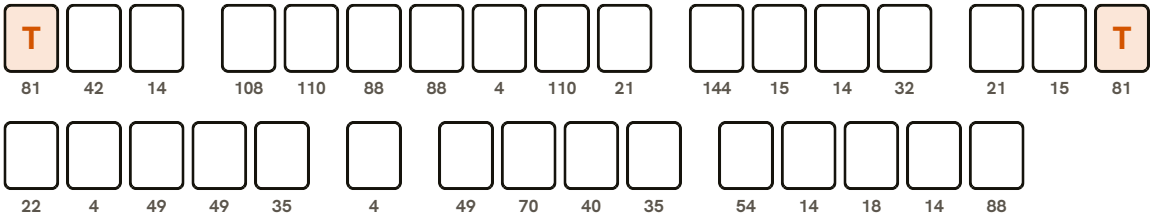
NAME	GEAR ITEM	ARTIFACT CARRIED	DOMINANT HAND	HAIRSTYLE	TRAP USED
Ethan Hunter	Machete Shield	Ancient Coin	Left Handed	Spiky Buzzcut	Sticky Sap
Ella Voyager	Compass Map	Silver Whistle	Right Handed	Spiky Buzzcut	Sneeze Powder
James Trapper	Rope Launcher	Golden Idol	Right Handed	Braided Ponytail	Loud Whistle
Zoe Tracker	Torch Glider	Ruby Jewel	Right Handed	Curly Afro	Loud Whistle
Leo Explorer	Torch Glider	Ancient Coin	Right Handed	Curly Afro	Sneeze Powder
Harper Camper	Grappling Hook	Jade Mask	Left Handed	Curly Afro	Sticky Sap
Ruby Pioneer	Machete Shield	Ancient Coin	Right Handed	Curly Afro	Loud Whistle
Lucas Climber	Grappling Hook	Jade Mask	Right Handed	Curly Afro	Loud Whistle
Maya Adventurer	Rope Launcher	Jade Mask	Left Handed	Braided Ponytail	Sticky Sap
Evelyn Guide	Machete Shield	Ancient Coin	Right Handed	Spiky Buzzcut	Sticky Sap
Charlotte Trailblazer	Machete Shield	Jade Mask	Left Handed	Curly Afro	Sticky Sap
Noah Navigator	Compass Map	Golden Idol	Right Handed	Spiky Buzzcut	Loud Whistle
Mia Runner	Compass Map	Ruby Jewel	Right Handed	Braided Ponytail	Loud Whistle
Ava Trekker	Grappling Hook	Ancient Coin	Left Handed	Braided Ponytail	Sticky Sap
Jack Scout	Machete Shield	Golden Idol	Right Handed	Curly Afro	Sticky Sap
Isla Discoverer	Machete Shield	Ancient Coin	Right Handed	Braided Ponytail	Sneeze Powder
Chloe Hiker	Grappling Hook	Ruby Jewel	Left Handed	Curly Afro	Sneeze Powder
Liam Wayfarer	Rope Launcher	Golden Idol	Right Handed	Curly Afro	Loud Whistle
Mason Outrider	Machete Shield	Silver Whistle	Right Handed	Curly Afro	Loud Whistle
Sofia Rover	Rope Launcher	Ruby Jewel	Left Handed	Braided Ponytail	Loud Whistle
Oliver Searcher	Grappling Hook	Golden Idol	Left Handed	Curly Afro	Loud Whistle

make your own at mathcrackers.com

CLUE 1 Multiplication facts (1-12)

> You count the rows of supply crates packed for the jungle expedition.

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



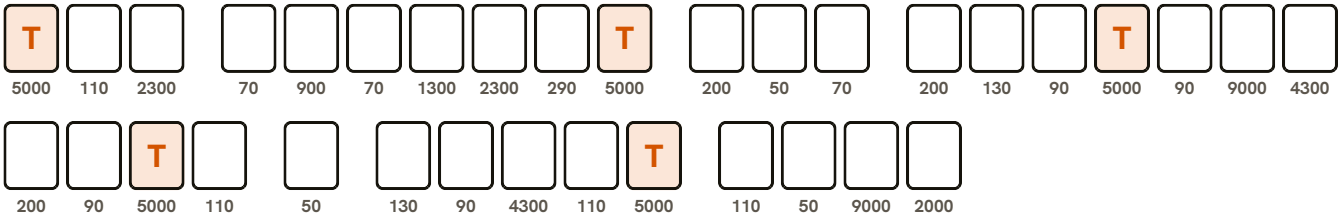
9 × 9 = ☐ → T	2 × 7 = ☐ → E	11 × 8 = ☐ → L	9 × 2 = ☐ → W
12 × 12 = ☐ → D	10 × 4 = ☐ → B	6 × 9 = ☐ → J	
3 × 7 = ☐ → N	11 × 2 = ☐ → C	7 × 5 = ☐ → Y	7 × 7 = ☐ → R
11 × 10 = ☐ → I	3 × 5 = ☐ → O	12 × 9 = ☐ → V	
4 × 8 = ☐ → S	1 × 4 = ☐ → A	10 × 7 = ☐ → U	6 × 7 = ☐ → H

Scratch space:

CLUE 2 Rounding

The digital trail scanner rounds your location distance to the nearest hundred.

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



Round 4,709 to the nearest thousand ☐ → T

Round 8,573 to the nearest thousand ☐ → N

Round 293 to the nearest ten ☐ → C

Round 4,262 to the nearest hundred ☐ → G

Round 89 to the nearest ten ☐ → I

Round 2,382 to the nearest thousand ☐ → D

Round 2,302 to the nearest hundred ☐ → E

Round 46 to the nearest ten ☐ → A

Round 73 to the nearest ten ☐ → S

Round 180 to the nearest hundred ☐ → W

Round 855 to the nearest hundred ☐ → U

Round 1,277 to the nearest hundred ☐ → P

Round 128 to the nearest ten ☐ → R

Round 113 to the nearest ten ☐ → H

Scratch space:

CLUE 3

Addition

You add up all the ancient map pieces collected along the river.

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



3156 + 5063 = ☐ → A	1896 + 2115 = ☐ → R	3876 + 1774 = ☐ → C
3489 + 2332 = ☐ → O	4019 + 4441 = ☐ → E	1372 + 1618 = ☐ → S
3623 + 2310 = ☐ → Y	3265 + 5158 = ☐ → H	2217 + 1482 = ☐ → N
1711 + 1673 = ☐ → T	1375 + 676 = ☐ → W	1468 + 3050 = ☐ → U
1466 + 2953 = ☐ → V	1375 + 1450 = ☐ → L	3449 + 1634 = ☐ → K
3189 + 6333 = ☐ → I	3532 + 4602 = ☐ → D	

Scratch space:

CLUE 4 Subtraction

You calculate how many trail rations remain after feeding the camp dogs.

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



3912 - 527 = ☐ → A

6630 - 2672 = ☐ → U

8745 - 3526 = ☐ → W

5701 - 2685 = ☐ → K

4400 - 2745 = ☐ → O

8377 - 2522 = ☐ → S

10664 - 4426 = ☐ → E

4502 - 2296 = ☐ → D

4784 - 1691 = ☐ → F

9825 - 1959 = ☐ → I

5926 - 1230 = ☐ → T

6487 - 2730 = ☐ → L

8648 - 4236 = ☐ → C

9068 - 3873 = ☐ → H

4978 - 2049 = ☐ → N

9484 - 993 = ☐ → R

8156 - 722 = ☐ → Y

Scratch space:

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

You divide the total gold coins equally among the expedition 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:

4 ÷ 2 = ☐	40 ÷ 4 = ☐	54 ÷ 6 = ☐	60 ÷ 10 = ☐	56 ÷ 8 = ☐
48 ÷ 12 = ☐	24 ÷ 8 = ☐	48 ÷ 6 = ☐	40 ÷ 8 = ☐	1 ÷ 1 = ☐
88 ÷ 8 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain glided over the pit, then snatched the golden idol.
2. The villain swung across the chasm, then stole the jade mask.
3. The villain shot a climbing rope, then pocketed the ancient coin.
4. The villain decoded the stone map, then stole the jade mask.
5. The villain glided over the pit, then stole the jade mask.
6. The villain swung across the chasm, then pocketed the ancient coin.
7. The villain cleared the thick vines, then grabbed the ruby jewel.
8. The villain decoded the stone map, then blew the silver whistle.
9. The villain shot a climbing rope, then snatched the golden idol.
10. The villain cleared the thick vines, then pocketed the ancient coin.
11. The villain swung across the chasm, then snatched the golden idol.
12. The villain cleared the thick vines, then blew the silver whistle.

TEACHER / PARENT

Answer Key

The Mystery of the Lost Temple Key

Culprit: Mason Outrider

Machete Shield · Silver Whistle · Right Handed · Curly Afro · Loud Whistle

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT CARRY A RUBY JEWEL"

9 × 9 = 81 (T) · 2 × 7 = 14 (E) · 11 × 8 = 88 (L) · 9 × 2 = 18 (W) · 12 × 12 = 144 (D) · 10 × 4 = 40 (B) · 6 × 9 = 54 (J) · 3 × 7 = 21 (N) · 11 × 2 = 22 (C) · 7 × 5 = 35 (Y) · 7 × 7 = 49 (R) · 11 × 10 = 110 (I) · 3 × 5 = 15 (O) · 12 × 9 = 108 (V) · 4 × 8 = 32 (S) · 1 × 4 = 4 (A) · 10 × 7 = 70 (U) · 6 × 7 = 42 (H)

Clue 2 (Rounding): "THE SUSPECT WAS WRITING WITH A RIGHT HAND"

Round 4,709 to the nearest thousand = 5000 (T) · Round 8,573 to the nearest thousand = 9000 (N) · Round 293 to the nearest ten = 290 (C) · Round 4,262 to the nearest hundred = 4300 (G) · Round 89 to the nearest ten = 90 (I) · Round 2,382 to the nearest thousand = 2000 (D) · Round 2,302 to the nearest hundred = 2300 (E) · Round 46 to the nearest ten = 50 (A) · Round 73 to the nearest ten = 70 (S) · Round 180 to the nearest hundred = 200 (W) · Round 855 to the nearest hundred = 900 (U) · Round 1,277 to the nearest hundred = 1300 (P) · Round 128 to the nearest ten = 130 (R) · Round 113 to the nearest ten = 110 (H)

Clue 3 (Addition): "A LOUD WHISTLE SCARED THE SNEAKY VILLAIN"

3156 + 5063 = 8219 (A) · 1896 + 2115 = 4011 (R) · 3876 + 1774 = 5650 (C) · 3489 + 2332 = 5821 (O) · 4019 + 4441 = 8460 (E) · 1372 + 1618 = 2990 (S) · 3623 + 2310 = 5933 (Y) · 3265 + 5158 = 8423 (H) · 2217 + 1482 = 3699 (N) · 1711 + 1673 = 3384 (T) · 1375 + 676 = 2051 (W) · 1468 + 3050 = 4518 (U) · 1466 + 2953 = 4419 (V) · 1375 + 1450 = 2825 (L) · 3449 + 1634 = 5083 (K) · 3189 + 6333 = 9522 (I) · 3532 + 4602 = 8134 (D)

Clue 4 (Subtraction): "A CURLY AFRO HAIR WAS FOUND NEAR THE LOCK"

3912 - 527 = 3385 (A) · 6630 - 2672 = 3958 (U) · 8745 - 3526 = 5219 (W) · 5701 - 2685 = 3016 (K) · 4400 - 2745 = 1655 (O) · 8377 - 2522 = 5855 (S) · 10664 - 4426 = 6238 (E) · 4502 - 2296 = 2206 (D) · 4784 - 1691 = 3093 (F) · 9825 - 1959 = 7866 (I) · 5926 - 1230 = 4696 (T) · 6487 - 2730 = 3757 (L) · 8648 - 4236 = 4412 (C) · 9068 - 3873 = 5195 (H) · 4978 - 2049 = 2929 (N) · 9484 - 993 = 8491 (R) · 8156 - 722 = 7434 (Y)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Mason Outrider

4 ÷ 2 = 2 · 40 ÷ 4 = 10 · 54 ÷ 6 = 9 · 60 ÷ 10 = 6 · 56 ÷ 8 = 7 · 48 ÷ 12 = 4 · 24 ÷ 8 = 3 · 48 ÷ 6 = 8 · 40 ÷ 8 = 5 · 1 ÷ 1 = 1 · 88 ÷ 8 = 11