The Temple of the Sunken Idol

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

Detective: _____ **Date:** _____

A mystery saboteur stole the golden sun idol right before the grand excavation team arrived. Use your detective skills and solve math puzzles 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 Saboteur is _____

Possible suspects

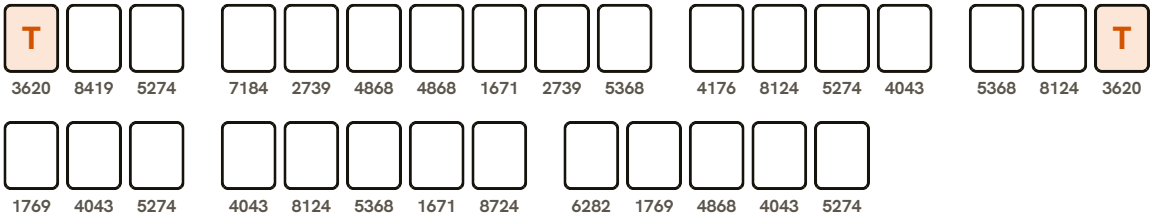
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	MAIN TOOL	GADGET	DOMINANT HAND	HAIR STYLE	WEAKNESS
Tara Pioneer	Compass Dial	Force Field	Right Handed	Braided Ponytail	Water Splash
Hugo Chart	Grappling Hook	Laser Cutter	Right Handed	Slicked Back	Water Splash
Felix Torch	Smoke Bomb	Glider Wings	Right Handed	Slicked Back	Water Splash
Luna Peak	Smoke Bomb	Laser Cutter	Left Handed	Spiky Hair	Flashlight Beam
Milo Ridge	Smoke Bomb	Glider Wings	Left Handed	Slicked Back	Loud Whistle
Leo Explorer	Smoke Bomb	Sonar Pulse	Left Handed	Slicked Back	Water Splash
Cleo Horizon	Decoder Ring	Force Field	Right Handed	Slicked Back	Flashlight Beam
Jasper Stone	Smoke Bomb	Force Field	Right Handed	Slicked Back	Water Splash
Sam Pathfinder	Grappling Hook	Jet Boots	Left Handed	Slicked Back	Water Splash
Nova Meadow	Compass Dial	Laser Cutter	Left Handed	Slicked Back	Water Splash
Eli Scout	Torch Lantern	Sonar Pulse	Left Handed	Spiky Hair	Loud Whistle
Sienna River	Compass Dial	Force Field	Left Handed	Slicked Back	Water Splash
Ezra Dune	Torch Lantern	Glider Wings	Left Handed	Slicked Back	Water Splash
Kai Drift	Smoke Bomb	Jet Boots	Right Handed	Spiky Hair	Water Splash
Ruby Canyon	Compass Dial	Force Field	Left Handed	Spiky Hair	Water Splash
Ivy Mapper	Compass Dial	Laser Cutter	Right Handed	Braided Ponytail	Flashlight Beam
Owen Summit	Compass Dial	Sonar Pulse	Left Handed	Braided Ponytail	Loud Whistle
Axel Compass	Smoke Bomb	Laser Cutter	Right Handed	Spiky Hair	Loud Whistle
Wren Valley	Smoke Bomb	Sonar Pulse	Left Handed	Braided Ponytail	Loud Whistle
Nora Navigator	Torch Lantern	Force Field	Left Handed	Braided Ponytail	Loud Whistle
Zoe Tracker	Compass Dial	Laser Cutter	Left Handed	Slicked Back	Flashlight Beam

CLUE 1 Subtraction

You calculate the missing supplies taken from the expedition trunk to decipher the first clue.

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



6892 - 3272 = ☐ → T

9729 - 1605 = ☐ → O

8725 - 3451 = ☐ → E

10217 - 3033 = ☐ → V

5285 - 3614 = ☐ → A

7656 - 2288 = ☐ → N

3008 - 269 = ☐ → I

4520 - 344 = ☐ → D

6509 - 1641 = ☐ → L

7726 - 1444 = ☐ → P

12615 - 3891 = ☐ → R

3178 - 1409 = ☐ → U

11183 - 2764 = ☐ → H

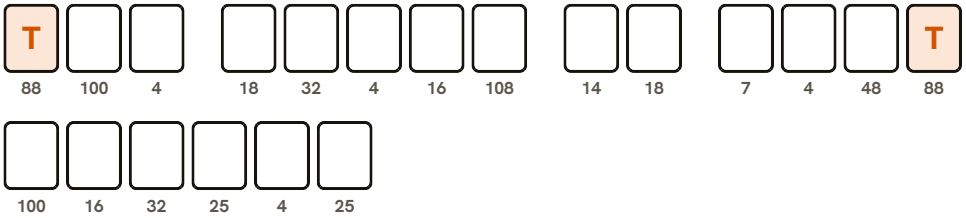
8480 - 4437 = ☐ → S

Scratch space:

CLUE 2 Multiplication facts (1-12)

> By counting rows of carved temple tiles across the chamber floor, you uncover the next lead.

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



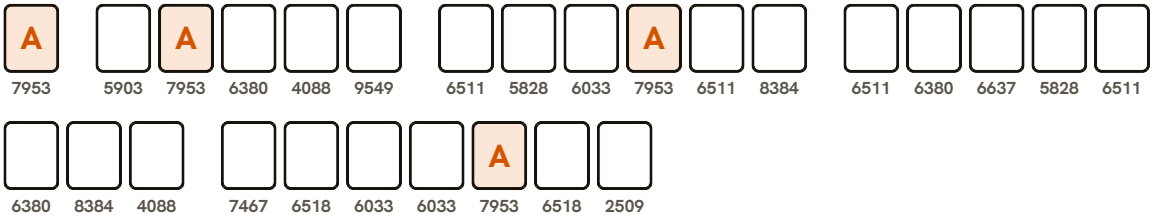
8 × 11 = ☐ → T	10 × 10 = ☐ → H	2 × 7 = ☐ → I
6 × 8 = ☐ → F	12 × 9 = ☐ → K	4 × 4 = ☐ → A	2 × 9 = ☐ → S
2 × 2 = ☐ → E	4 × 8 = ☐ → N	7 × 1 = ☐ → L	5 × 5 = ☐ → D

Scratch space:

CLUE 3 Addition

> Adding up all the golden coins recovered from the camp reveals another vital detail.

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



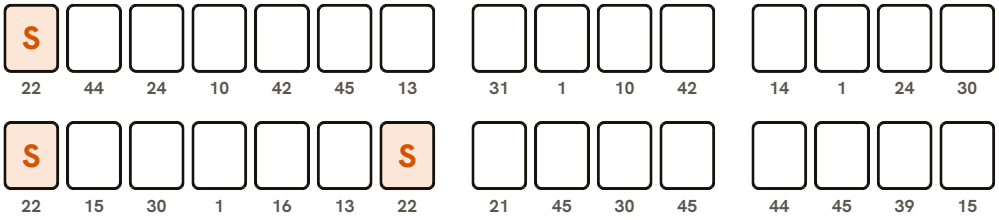
5311 + 2642 = ☐ → A	2644 + 1444 = ☐ → E	2590 + 3313 = ☐ → W
3948 + 4436 = ☐ → H	2363 + 4155 = ☐ → I	4209 + 1824 = ☐ → L
2015 + 4365 = ☐ → T	1908 + 3920 = ☐ → P	3048 + 6501 = ☐ → R
2668 + 3843 = ☐ → S	4413 + 3054 = ☐ → V	1709 + 800 = ☐ → N
2629 + 4008 = ☐ → O		

Scratch space:

CLUE 4 Percentages

A damaged radar screen displays the exact percentage of fuel remaining in the getaway gear.

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



50% of 44 = ☐ → S

50% of 60 = ☐ → R

40% of 105 = ☐ → K

10% of 440 = ☐ → L

5% of 20 = ☐ → A

25% of 124 = ☐ → B

5% of 200 = ☐ → C

75% of 32 = ☐ → I

40% of 40 = ☐ → N

50% of 26 = ☐ → D

75% of 20 = ☐ → T

75% of 52 = ☐ → F

5% of 900 = ☐ → E

20% of 105 = ☐ → W

40% of 35 = ☐ → H

Scratch space:

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

> Splitting the ancient map pieces equally among your team members uncovers the final clue.

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:

22 ÷ 11 = ☐ | 48 ÷ 8 = ☐ | 56 ÷ 8 = ☐ | 30 ÷ 6 = ☐ | 28 ÷ 7 = ☐

60 ÷ 5 = ☐ | 8 ÷ 1 = ☐ | 9 ÷ 3 = ☐ | 81 ÷ 9 = ☐ | 60 ÷ 6 = ☐

1 ÷ 1 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain checks a compass dial, then soars on glider wings.
2. The villain checks a compass dial, then raises a force field.
3. The villain checks a compass dial, then zooms off with jet boots.
4. The villain turns a decoder ring, then sends out a sonar pulse.
5. The villain uses a grappling hook, then sends out a sonar pulse.
6. The villain uses a grappling hook, then zooms off with jet boots.
7. The villain checks a compass dial, then slices through with a laser cutter.
8. The villain turns a decoder ring, then zooms off with jet boots.
9. The villain drops a smoke bomb, then soars on glider wings.
10. The villain turns a decoder ring, then slices through with a laser cutter.
11. The villain lights a torch lantern, then soars on glider wings.
12. The villain drops a smoke bomb, then raises a force field.

TEACHER / PARENT

Answer Key

The Temple of the Sunken Idol

Culprit: Ezra Dune

Torch Lantern · Glider Wings · Left Handed · Slicked Back · Water Splash

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE VILLAIN DOES NOT USE SONAR PULSE"

6892 - 3272 = 3620 (T) · 9729 - 1605 = 8124 (O) · 8725 - 3451 = 5274 (E) · 10217 - 3033 = 7184 (V) · 5285 - 3614 = 1671 (A) · 7656 - 2288 = 5368 (N) · 3008 - 269 = 2739 (I) · 4520 - 344 = 4176 (D) · 6509 - 1641 = 4868 (L) · 7726 - 1444 = 6282 (P) · 12615 - 3891 = 8724 (R) · 3178 - 1409 = 1769 (U) · 11183 - 2764 = 8419 (H) · 8480 - 4437 = 4043 (S)

Clue 2 (Multiplication facts (1-12)): "THE SNEAK IS LEFT HANDED"

8 × 11 = 88 (T) · 10 × 10 = 100 (H) · 2 × 7 = 14 (I) · 6 × 8 = 48 (F) · 12 × 9 = 108 (K) · 4 × 4 = 16 (A) · 2 × 9 = 18 (S) · 2 × 2 = 4 (E) · 4 × 8 = 32 (N) · 7 × 1 = 7 (L) · 5 × 5 = 25 (D)

Clue 3 (Addition): "A WATER SPLASH STOPS THE VILLAIN"

5311 + 2642 = 7953 (A) · 2644 + 1444 = 4088 (E) · 2590 + 3313 = 5903 (W) · 3948 + 4436 = 8384 (H) · 2363 + 4155 = 6518 (I) · 4209 + 1824 = 6033 (L) · 2015 + 4365 = 6380 (T) · 1908 + 3920 = 5828 (P) · 3048 + 6501 = 9549 (R) · 2668 + 3843 = 6511 (S) · 4413 + 3054 = 7467 (V) · 1709 + 800 = 2509 (N) · 2629 + 4008 = 6637 (O)

Clue 4 (Percentages): "SLICKED BACK HAIR STRANDS WERE LEFT"

50% of 44 = 22 (S) · 50% of 60 = 30 (R) · 40% of 105 = 42 (K) · 10% of 440 = 44 (L) · 5% of 20 = 1 (A) · 25% of 124 = 31 (B) · 5% of 200 = 10 (C) · 75% of 32 = 24 (I) · 40% of 40 = 16 (N) · 50% of 26 = 13 (D) · 75% of 20 = 15 (T) · 75% of 52 = 39 (F) · 5% of 900 = 45 (E) · 20% of 105 = 21 (W) · 40% of 35 = 14 (H)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Ezra Dune

22 ÷ 11 = 2 · 48 ÷ 8 = 6 · 56 ÷ 8 = 7 · 30 ÷ 6 = 5 · 28 ÷ 7 = 4 · 60 ÷ 5 = 12 · 8 ÷ 1 = 8 · 9 ÷ 3 = 3 · 81 ÷ 9 = 9 · 60 ÷ 6 = 10 · 1 ÷ 1 = 1