The Mystery of the Sunken Temple

Grade 6 math · Percentages, Exponents, Order of operations, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

While exploring the ancient Ruins of Oakhaven on Cipher Island, Chief Archaeologist Dr. Aris discovered that the Golden Sun Idol was stolen right off its pedestal!

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 intruder is _____

Possible suspects

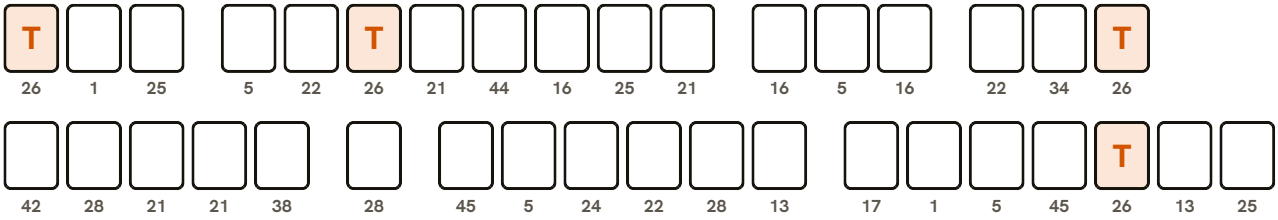
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	PRIMARY GEAR	SECONDARY GEAR	WATCH HAND	BACKPACK COLOR	TRAP VULNERABILITY
Nora Hayes	Machete	Signal Whistle	Right Wrist	Forest Green	Dart Trap
Tessa Finch	Compass	Mining Pick	Left Wrist	Crimson Red	Dart Trap
Elena Cruz	Machete	Climbing Axe	Left Wrist	Forest Green	Snare Trap
Grace Kim	Compass	Torch	Right Wrist	Crimson Red	Dart Trap
Caleb Frost	Decoder Ring	Binoculars	Left Wrist	Crimson Red	Dart Trap
Owen Drake	Flare Gun	Climbing Axe	Left Wrist	Crimson Red	Dart Trap
Nina Patel	Machete	Binoculars	Left Wrist	Crimson Red	Snare Trap
Zuri Okafor	Rope Launcher	Binoculars	Left Wrist	Crimson Red	Dart Trap
Alex Rivers	Flare Gun	Binoculars	Left Wrist	Cobalt Blue	Snare Trap
Jonah Flint	Flare Gun	Mining Pick	Right Wrist	Crimson Red	Snare Trap
Maya Lin	Decoder Ring	Mining Pick	Right Wrist	Forest Green	Snare Trap
Zack Faraday	Decoder Ring	Mining Pick	Right Wrist	Crimson Red	Snare Trap
Eli Thorn	Rope Launcher	Binoculars	Right Wrist	Forest Green	Snare Trap
Dylan Brooks	Decoder Ring	Mining Pick	Left Wrist	Crimson Red	Snare Trap
Sam Mercer	Machete	Mining Pick	Left Wrist	Forest Green	Snare Trap
Sora Takahashi	Flare Gun	Signal Whistle	Left Wrist	Crimson Red	Dart Trap
Lucas Wilde	Machete	Signal Whistle	Right Wrist	Forest Green	Snare Trap
Mason Reed	Flare Gun	Climbing Axe	Left Wrist	Forest Green	Snare Trap
Kai Sterling	Compass	Signal Whistle	Left Wrist	Crimson Red	Dart Trap
Leo Vance	Flare Gun	Binoculars	Right Wrist	Forest Green	Snare Trap
Ruby Zhang	Compass	Climbing Axe	Left Wrist	Cobalt Blue	Dart Trap

CLUE 1 Percentages

A supply crate was opened, and the digital sensor showed the exact percentage of provisions remaining.

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



50% of 52 = ☐ → T

25% of 136 = ☐ → O

25% of 52 = ☐ → L

20% of 125 = ☐ → E

5% of 100 = ☐ → I

50% of 2 = ☐ → H

20% of 140 = ☐ → A

60% of 70 = ☐ → C

20% of 220 = ☐ → U

20% of 190 = ☐ → Y

5% of 340 = ☐ → W

25% of 64 = ☐ → D

25% of 180 = ☐ → S

25% of 96 = ☐ → G

5% of 420 = ☐ → R

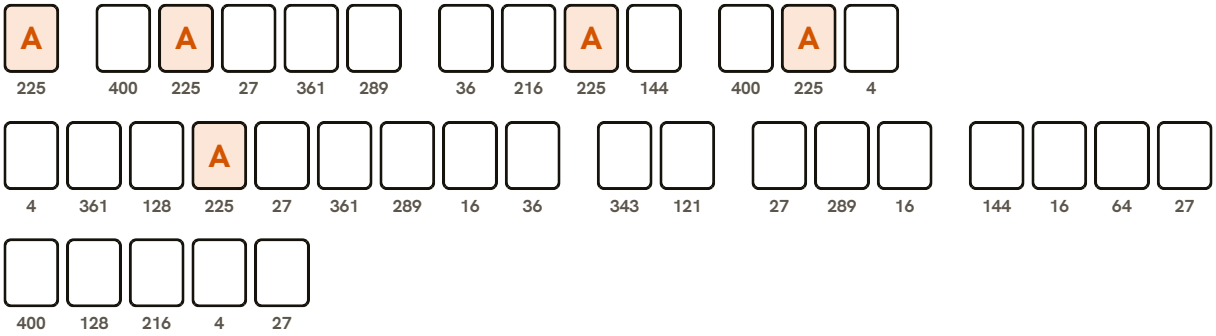
10% of 220 = ☐ → N

Scratch space:

CLUE 2 Exponents

> An ancient stone lock activated, flashing squared power values across the puzzle grid.

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



15^2 = ☐ → A

6^2 = ☐ → D

19^2 = ☐ → C

7^3 = ☐ → O

8^2 = ☐ → F

2^7 = ☐ → R

12^2 = ☐ → L

20^2 = ☐ → W

6^3 = ☐ → I

17^2 = ☐ → H

3^3 = ☐ → T

2^2 = ☐ → S

2^4 = ☐ → E

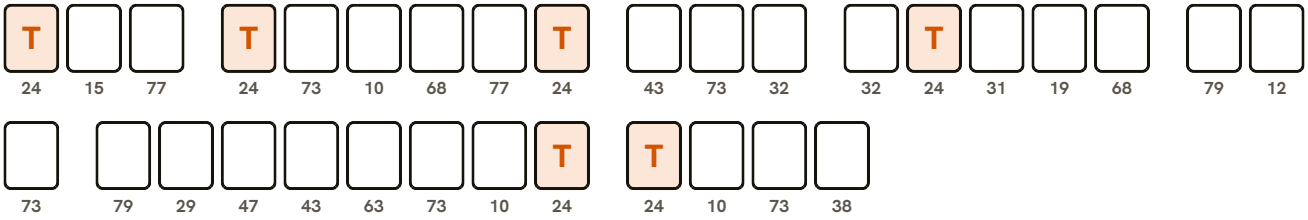
11^2 = ☐ → N

Scratch space:

CLUE 3 Order of operations

A jungle control panel needed a multi step calculation to reveal the correct path coordinate.

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



4 + 4 × 5 = ☐ → T

6 + 3 × 3 = ☐ → H

6 + 3 × 2 = ☐ → Y

12 × 8 - 23 = ☐ → A

3 × 12 - 17 = ☐ → N

9 × 6 - 22 = ☐ → S

4 × 10 - 9 = ☐ → U

35 + 2 × 6 = ☐ → O

62 + 5 × 3 = ☐ → E

8 + 7 × 5 = ☐ → W

10 × 8 - 17 = ☐ → D

6 × 7 - 4 = ☐ → P

49 + 6 × 5 = ☐ → B

6 × 6 - 26 = ☐ → R

12 × 8 - 28 = ☐ → G

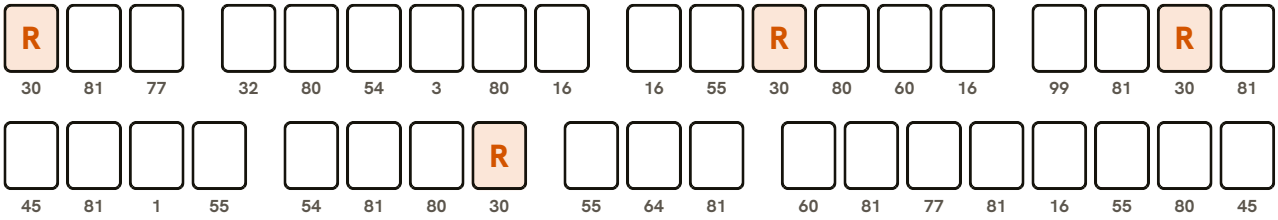
5 + 8 × 3 = ☐ → L

Scratch space:

CLUE 4 Multiplication facts (1-12)

The camp commander checked the expedition map, counting rows of equal tent sites.

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



6 × 5 = ☐ → R	9 × 11 = ☐ → W	3 × 1 = ☐ → V	5 × 9 = ☐ → L
6 × 9 = ☐ → N	8 × 10 = ☐ → A	5 × 11 = ☐ → T	
11 × 7 = ☐ → D	4 × 8 = ☐ → C	8 × 8 = ☐ → H	
10 × 6 = ☐ → P	9 × 9 = ☐ → E	1 × 1 = ☐ → F	8 × 2 = ☐ → S

Scratch space:

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

> The scout team gathered up all trail rations to divide them evenly between each pack.

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 = ☐	40 ÷ 10 = ☐	20 ÷ 2 = ☐	56 ÷ 8 = ☐	40 ÷ 8 = ☐
4 ÷ 4 = ☐	24 ÷ 8 = ☐	72 ÷ 12 = ☐	72 ÷ 6 = ☐	72 ÷ 9 = ☐
72 ÷ 8 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain swung a heavy machete, then chipped stone with a mining pick.
2. The villain fired a sturdy rope launcher, then scouted through binoculars.
3. The villain turned an ancient decoder ring, then swung a sharp climbing axe.
4. The villain shot a bright flare gun, then swung a sharp climbing axe.
5. The villain swung a heavy machete, then blew a loud signal whistle.
6. The villain turned an ancient decoder ring, then lit up the tunnel with a torch.
7. The villain checked a brass compass, then blew a loud signal whistle.
8. The villain fired a sturdy rope launcher, then chipped stone with a mining pick.
9. The villain fired a sturdy rope launcher, then lit up the tunnel with a torch.
10. The villain checked a brass compass, then chipped stone with a mining pick.
11. The villain turned an ancient decoder ring, then scouted through binoculars.
12. The villain checked a brass compass, then lit up the tunnel with a torch.

make your own at mathcrackers.com

TEACHER / PARENT

Answer Key

The Mystery of the Sunken Temple

Culprit: Caleb Frost

Decoder Ring · Binoculars · Left Wrist · Crimson Red · Dart Trap

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

Clue 1 (Percentages): "THE INTRUDER DID NOT CARRY A SIGNAL WHISTLE"

50% of 52 = 26 (T) · 25% of 136 = 34 (O) · 25% of 52 = 13 (L) · 20% of 125 = 25 (E) · 5% of 100 = 5 (I) · 50% of 2 = 1 (H) · 20% of 140 = 28 (A) · 60% of 70 = 42 (C) · 20% of 220 = 44 (U) · 20% of 190 = 38 (Y) · 5% of 340 = 17 (W) · 25% of 64 = 16 (D) · 25% of 180 = 45 (S) · 25% of 96 = 24 (G) · 5% of 420 = 21 (R) · 10% of 220 = 22 (N)

Clue 2 (Exponents): "A WATCH DIAL WAS SCRATCHED ON THE LEFT WRIST"

15^2 = 225 (A) · 6^2 = 36 (D) · 19^2 = 361 (C) · 7^3 = 343 (O) · 8^2 = 64 (F) · 2^7 = 128 (R) · 12^2 = 144 (L) · 20^2 = 400 (W) · 6^3 = 216 (I) · 17^2 = 289 (H) · 3^3 = 27 (T) · 2^2 = 4 (S) · 2^4 = 16 (E) · 11^2 = 121 (N)

Clue 3 (Order of operations): "THE TARGET WAS STUNG BY A BLOWDART TRAP"

4 + 4 × 5 = 24 (T) · 6 + 3 × 3 = 15 (H) · 6 + 3 × 2 = 12 (Y) · 12 × 8 - 23 = 73 (A) · 3 × 12 - 17 = 19 (N) · 9 × 6 - 22 = 32 (S) · 4 × 10 - 9 = 31 (U) · 35 + 2 × 6 = 47 (O) · 62 + 5 × 3 = 77 (E) · 8 + 7 × 5 = 43 (W) · 10 × 8 - 17 = 63 (D) · 6 × 7 - 4 = 38 (P) · 49 + 6 × 5 = 79 (B) · 6 × 6 - 26 = 10 (R) · 12 × 8 - 28 = 68 (G) · 5 + 8 × 3 = 29 (L)

Clue 4 (Multiplication facts (1-12)): "RED CANVAS STRAPS WERE LEFT NEAR THE PEDESTAL"

6 × 5 = 30 (R) · 9 × 11 = 99 (W) · 3 × 1 = 3 (V) · 5 × 9 = 45 (L) · 6 × 9 = 54 (N) · 8 × 10 = 80 (A) · 5 × 11 = 55 (T) · 11 × 7 = 77 (D) · 4 × 8 = 32 (C) · 8 × 8 = 64 (H) · 10 × 6 = 60 (P) · 9 × 9 = 81 (E) · 1 × 1 = 1 (F) · 8 × 2 = 16 (S)

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

6 ÷ 3 = 2 · 40 ÷ 10 = 4 · 20 ÷ 2 = 10 · 56 ÷ 8 = 7 · 40 ÷ 8 = 5 · 4 ÷ 4 = 1 · 24 ÷ 8 = 3 · 72 ÷ 12 = 6 · 72 ÷ 6 = 12 · 72 ÷ 9 = 8 · 72 ÷ 8 = 9