The Lost Idol of Serpent Canopy

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A mysterious temple bandit swiped the golden idol from the camp vault! Detective, search the dense jungle and gather clues to catch the thief.

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 bandit is _____

Possible suspects

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

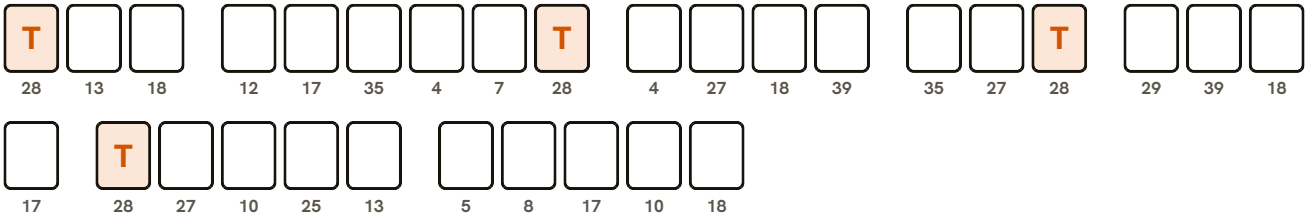
NAME	MAIN SKILL	SPECIAL GEAR	CARRIED ITEM	HEADGEAR	STOPPING TOOL
Caleb	grapple hook	boulder roll	map pouch	pith helmet	loud whistle
Elena	grapple hook	boulder roll	compass watch	jungle goggles	bright mirrors
Maya	vine swing	sonar whistle	map pouch	pith helmet	sticky resin
Ruby	compass dash	torch flare	compass watch	red bandana	sticky resin
Zoe	grapple hook	decoy dart	compass watch	pith helmet	bright mirrors
Lucas	smoke bomb	sonar whistle	map pouch	red bandana	sticky resin
Jax	smoke bomb	sonar whistle	map pouch	pith helmet	sticky resin
Kai	vine swing	torch flare	map pouch	red bandana	loud whistle
Ava	vine swing	torch flare	compass watch	red bandana	loud whistle
Nora	grapple hook	sonar whistle	compass watch	red bandana	bright mirrors
Sam	grapple hook	boulder roll	map pouch	jungle goggles	sticky resin
Noah	vine swing	boulder roll	compass watch	pith helmet	sticky resin
Ethan	vine swing	sonar whistle	compass watch	pith helmet	loud whistle
Oliver	smoke bomb	glider wing	compass watch	jungle goggles	sticky resin
Mason	mud slide	decoy dart	compass watch	pith helmet	loud whistle
Logan	mud slide	glider wing	map pouch	pith helmet	loud whistle
Sofia	vine swing	decoy dart	map pouch	pith helmet	sticky resin
Liam	smoke bomb	torch flare	map pouch	pith helmet	sticky resin
Leo	mud slide	boulder roll	compass watch	red bandana	bright mirrors
Isla	compass dash	sonar whistle	map pouch	jungle goggles	sticky resin
Mateo	smoke bomb	decoy dart	map pouch	pith helmet	sticky resin

make your own at mathcrackers.com

CLUE 1 Fractions of a number

The team checks a fraction of the supply crates to locate the first clue.

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



4/10 of 70 = ☐ → T

3/5 of 30 = ☐ → E

4/6 of 6 = ☐ → D

1/10 of 130 = ☐ → H

2/8 of 100 = ☐ → C

2/10 of 195 = ☐ → S

2/10 of 50 = ☐ → R

3/6 of 70 = ☐ → N

1/2 of 34 = ☐ → A

1/8 of 96 = ☐ → B

2/8 of 28 = ☐ → I

1/3 of 87 = ☐ → U

2/6 of 81 = ☐ → O

2/4 of 10 = ☐ → F

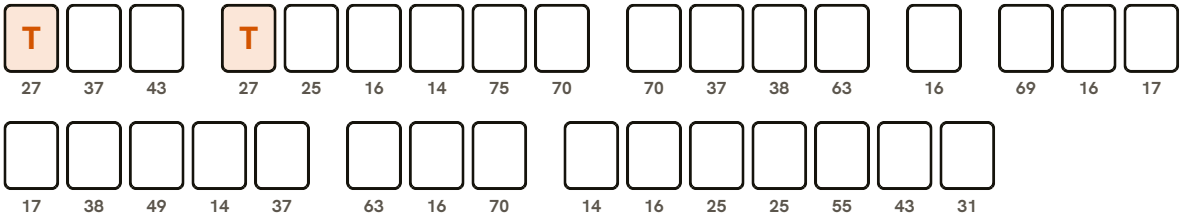
5/10 of 16 = ☐ → L

Scratch space:

CLUE 2 Order of operations

A notebook has multi-step rules that must be solved in order to decode the trail.

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



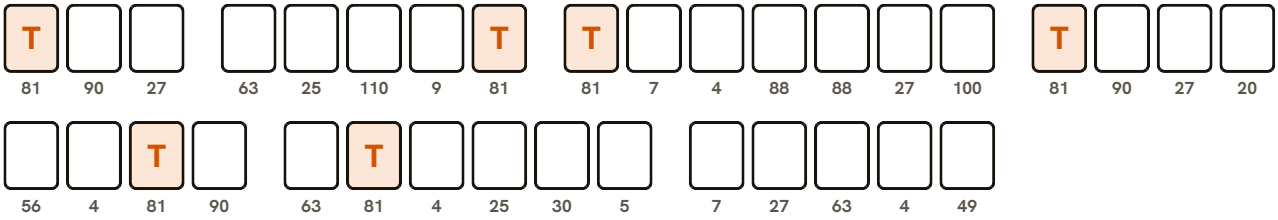
5 × 8 - 13 = ☐ → T	10 × 2 - 4 = ☐ → A	7 × 5 - 4 = ☐ → D
15 + 9 × 6 = ☐ → M	10 × 9 - 27 = ☐ → W	20 + 6 × 3 = ☐ → O
2 + 5 × 3 = ☐ → P	4 × 9 - 11 = ☐ → R	9 × 8 - 2 = ☐ → S
5 × 10 - 7 = ☐ → E	54 + 7 × 3 = ☐ → K	31 + 2 × 9 = ☐ → U
22 + 3 × 5 = ☐ → H	4 + 2 × 5 = ☐ → C	39 + 2 × 8 = ☐ → I

Scratch space:

CLUE 3 Multiplication facts (1-12)

> The expedition counts gear packed in equal rows inside the storage tent.

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



9 × 9 = ☐ → T	2 × 10 = ☐ → M	9 × 1 = ☐ → U
3 × 10 = ☐ → K	7 × 9 = ☐ → S	7 × 7 = ☐ → N
11 × 10 = ☐ → O	8 × 7 = ☐ → W	10 × 10 = ☐ → D
5 × 5 = ☐ → C	4 × 1 = ☐ → I	9 × 3 = ☐ → E
1 × 7 = ☐ → R	8 × 11 = ☐ → P	9 × 10 = ☐ → H
		5 × 1 = ☐ → Y

Scratch space:

CLUE 4 Rounding

An altimeter readout is worn out and only shows rounded altitude numbers.

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

| A | | |

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

> The camp chief divides rescue ropes equally among the search parties.

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 ÷ 1 = ☐ | 30 ÷ 3 = ☐ | 6 ÷ 3 = ☐ | 35 ÷ 7 = ☐ | 44 ÷ 11 = ☐

88 ÷ 11 = ☐ | 27 ÷ 9 = ☐ | 33 ÷ 3 = ☐ | 14 ÷ 2 = ☐ | 2 ÷ 2 = ☐

108 ÷ 12 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain made a compass dash, then shot a decoy dart.
2. The villain swung on a vine, then blew a sonar whistle.
3. The villain fired a grapple hook, then triggered a boulder roll.
4. The villain swung on a vine, then deployed a glider wing.
5. The villain dropped a smoke bomb, then deployed a glider wing.
6. The villain dropped a smoke bomb, then blew a sonar whistle.
7. The villain executed a mud slide, then lit a torch flare.
8. The villain made a compass dash, then lit a torch flare.
9. The villain fired a grapple hook, then lit a torch flare.
10. The villain swung on a vine, then shot a decoy dart.
11. The villain executed a mud slide, then triggered a boulder roll.
12. The villain dropped a smoke bomb, then shot a decoy dart.

TEACHER / PARENT

Answer Key

The Lost Idol of Serpent Canopy

Culprit: Mateo

smoke bomb · decoy dart · map pouch · pith helmet · sticky resin

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE BANDIT DOES NOT USE A TORCH FLARE"

4/10 of 70 = 28 (T) · 3/5 of 30 = 18 (E) · 4/6 of 6 = 4 (D) · 1/10 of 130 = 13 (H) · 2/8 of 100 = 25 (C) · 2/10 of 195 = 39 (S) · 2/10 of 50 = 10 (R) · 3/6 of 70 = 35 (N) · 1/2 of 34 = 17 (A) · 1/8 of 96 = 12 (B) · 2/8 of 28 = 7 (I) · 1/3 of 87 = 29 (U) · 2/6 of 81 = 27 (O) · 2/4 of 10 = 5 (F) · 5/10 of 16 = 8 (L)

Clue 2 (Order of operations): "THE TRACKS SHOW A MAP POUCH WAS CARRIED"

5 × 8 - 13 = 27 (T) · 10 × 2 - 4 = 16 (A) · 7 × 5 - 4 = 31 (D) · 15 + 9 × 6 = 69 (M) · 10 × 9 - 27 = 63 (W) · 20 + 6 × 3 = 38 (O) · 2 + 5 × 3 = 17 (P) · 4 × 9 - 11 = 25 (R) · 9 × 8 - 2 = 70 (S) · 5 × 10 - 7 = 43 (E) · 54 + 7 × 3 = 75 (K) · 31 + 2 × 9 = 49 (U) · 22 + 3 × 5 = 37 (H) · 4 + 2 × 5 = 14 (C) · 39 + 2 × 8 = 55 (I)

Clue 3 (Multiplication facts (1-12)): "THE SCOUT TRIPPED THEM WITH STICKY RESIN"

9 × 9 = 81 (T) · 2 × 10 = 20 (M) · 9 × 1 = 9 (U) · 3 × 10 = 30 (K) · 7 × 9 = 63 (S) · 7 × 7 = 49 (N) · 11 × 10 = 110 (O) · 8 × 7 = 56 (W) · 10 × 10 = 100 (D) · 5 × 5 = 25 (C) · 4 × 1 = 4 (I) · 9 × 3 = 27 (E) · 5 × 1 = 5 (Y) · 1 × 7 = 7 (R) · 8 × 11 = 88 (P) · 9 × 10 = 90 (H)

Clue 4 (Rounding): "A PITH HELMET SCRATCHED THE TREE BARK"

Round 27 to the nearest ten = 30 (A) · Round 6,897 to the nearest thousand = 7000 (K) · Round 287 to the nearest ten = 290 (I) · Round 90 to the nearest ten = 90 (B) · Round 2,944 to the nearest hundred = 2900 (E) · Round 4,343 to the nearest hundred = 4300 (S) · Round 167 to the nearest ten = 170 (R) · Round 434 to the nearest ten = 430 (M) · Round 2,284 to the nearest hundred = 2300 (T) · Round 19 to the nearest ten = 20 (C) · Round 114 to the nearest ten = 110 (H) · Round 5,384 to the nearest thousand = 5000 (L) · Round 371 to the nearest ten = 370 (D) · Round 693 to the nearest hundred = 700 (P)

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

6 ÷ 1 = 6 · 30 ÷ 3 = 10 · 6 ÷ 3 = 2 · 35 ÷ 7 = 5 · 44 ÷ 11 = 4 · 88 ÷ 11 = 8 · 27 ÷ 9 = 3 · 33 ÷ 3 = 11 · 14 ÷ 2 = 7 · 2 ÷ 2 = 1 · 108 ÷ 12 = 9