The Mystery of Skull Rock Temple

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

Detective: _____ **Date:** _____

The Golden Idol has disappeared from the temple vault! Solve the math clues to discover which explorer took it.

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 sneaky rival explorer is _____

Possible suspects

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

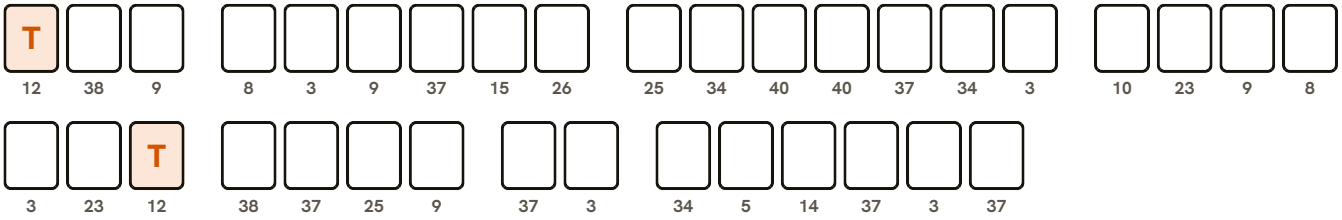
NAME	EXPLORER TOOL	PET COMPANION	STRAP SIDE	HAT TYPE	FEAR
Milo Marsh	Decoder Ring	Iguana	Right Shoulder Strap	Leather Cap	Loud Whistles
Rory River	Decoder Ring	Monkey	Right Shoulder Strap	Fedora	Bright Flashlights
Hana Hunter	Brass Compass	Parrot	Left Shoulder Strap	Fedora	Loud Whistles
Willa Wild	Decoder Ring	Gecko	Right Shoulder Strap	Fedora	Bright Flashlights
Leo Lumber	Map Scroll	Gecko	Right Shoulder Strap	Leather Cap	Loud Whistles
Finn Finder	Grappling Hook	Gecko	Right Shoulder Strap	Fedora	Bright Flashlights
Sienna Stone	Brass Compass	Fruit Bat	Left Shoulder Strap	Leather Cap	Bright Flashlights
Indiana Jax	Decoder Ring	Fruit Bat	Right Shoulder Strap	Pith Helmet	Loud Whistles
Gabe Gates	Torch Light	Fruit Bat	Right Shoulder Strap	Leather Cap	Bright Flashlights
Penny Path	Torch Light	Gecko	Right Shoulder Strap	Pith Helmet	Squeaking Mice
Pip Parker	Map Scroll	Parrot	Right Shoulder Strap	Leather Cap	Loud Whistles
Clara Cruz	Torch Light	Fruit Bat	Right Shoulder Strap	Leather Cap	Loud Whistles
Vince Vine	Grappling Hook	Iguana	Right Shoulder Strap	Fedora	Bright Flashlights
Sammy Swift	Grappling Hook	Monkey	Left Shoulder Strap	Leather Cap	Bright Flashlights
Nora Navigator	Decoder Ring	Fruit Bat	Left Shoulder Strap	Leather Cap	Loud Whistles
Bruno Bold	Grappling Hook	Monkey	Right Shoulder Strap	Fedora	Loud Whistles
Maya Mapes	Brass Compass	Iguana	Left Shoulder Strap	Leather Cap	Squeaking Mice
Toby Tunnel	Brass Compass	Gecko	Right Shoulder Strap	Leather Cap	Loud Whistles
Zack Zoom	Grappling Hook	Fruit Bat	Left Shoulder Strap	Leather Cap	Squeaking Mice
Quinn Trail	Brass Compass	Gecko	Right Shoulder Strap	Leather Cap	Squeaking Mice
Kira Keen	Grappling Hook	Fruit Bat	Right Shoulder Strap	Fedora	Squeaking Mice

make your own at mathcrackers.com

CLUE 1 Fractions of a number

You count a fraction of the gold coins found in the chest to reveal your first clue.

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



1/3 of 36 = ☐ → T

2/10 of 25 = ☐ → G

3/4 of 20 = ☐ → K

5/10 of 68 = ☐ → I

4/8 of 76 = ☐ → H

4/8 of 80 = ☐ → L

4/8 of 74 = ☐ → A

8/10 of 10 = ☐ → S

1/5 of 130 = ☐ → Y

1/8 of 24 = ☐ → N

2/10 of 115 = ☐ → O

3/6 of 50 = ☐ → V

2/4 of 28 = ☐ → U

3/6 of 20 = ☐ → D

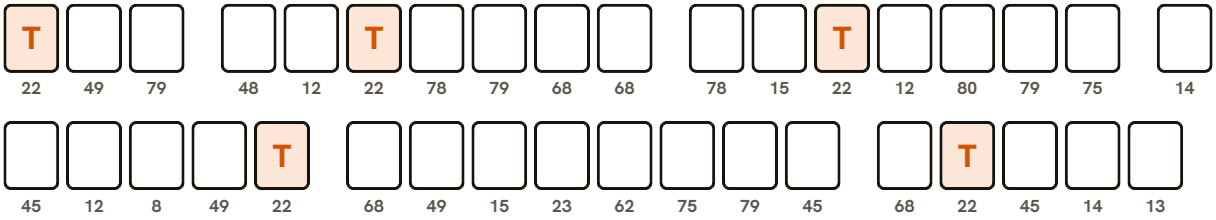
5/10 of 18 = ☐ → E

Scratch space:

CLUE 2 Order of operations

You follow the step by step sequence on the stone wall to unlock the next secret.

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



4 × 9 - 14 = ☐ → T

7 + 4 × 4 = ☐ → U

73 + 2 × 3 = ☐ → E

4 × 6 - 16 = ☐ → G

26 + 4 × 9 = ☐ → L

14 + 7 × 5 = ☐ → H

3 + 3 × 3 = ☐ → I

6 × 8 - 3 = ☐ → R

1 + 4 × 3 = ☐ → P

2 × 8 - 2 = ☐ → A

3 + 3 × 4 = ☐ → O

54 + 8 × 3 = ☐ → N

8 × 9 - 4 = ☐ → S

9 × 11 - 19 = ☐ → C

11 × 5 - 7 = ☐ → W

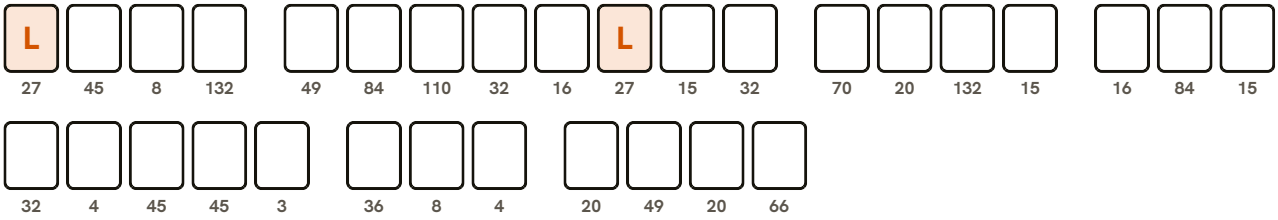
43 + 8 × 4 = ☐ → D

Scratch space:

CLUE 3 Multiplication facts (1-12)

You multiply the rows of glowing gems on the temple door to figure out who left them.

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



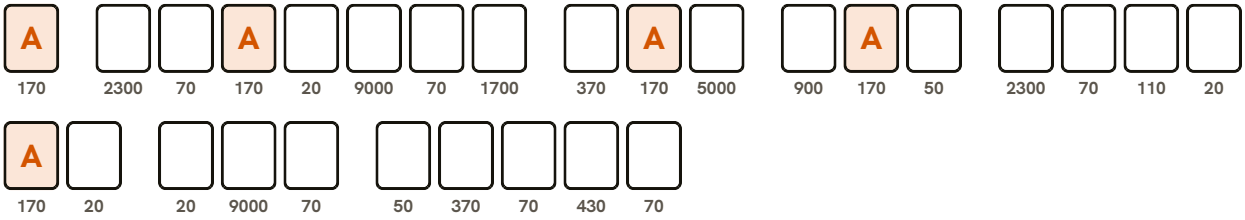
9 × 3 = ☐ → L	12 × 3 = ☐ → R	7 × 7 = ☐ → W	4 × 4 = ☐ → T
2 × 4 = ☐ → U	4 × 8 = ☐ → S	11 × 10 = ☐ → I	
3 × 1 = ☐ → P	11 × 12 = ☐ → D	7 × 12 = ☐ → H	
5 × 9 = ☐ → O	3 × 5 = ☐ → E	7 × 10 = ☐ → M	
2 × 10 = ☐ → A	6 × 11 = ☐ → Y	1 × 4 = ☐ → N	

Scratch space:

CLUE 4 Rounding

> The ancient compass dial rounds the distance to the nearest benchmark number.

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



Round 173 to the nearest ten ☐ → A

Round 431 to the nearest ten ☐ → N

Round 2,258 to the nearest hundred ☐ → L

Round 374 to the nearest ten ☐ → C

Round 1,711 to the nearest hundred ☐ → R

Round 113 to the nearest ten ☐ → F

Round 52 to the nearest ten ☐ → S

Round 21 to the nearest ten ☐ → T

Round 922 to the nearest hundred ☐ → W

Round 67 to the nearest ten ☐ → E

Round 8,734 to the nearest thousand ☐ → H

Round 5,402 to the nearest thousand ☐ → P

Scratch space:

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

You split the food rations equally among your expedition team to uncover 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:

36 ÷ 9 = ☐	10 ÷ 1 = ☐	14 ÷ 7 = ☐	48 ÷ 6 = ☐	44 ÷ 4 = ☐
9 ÷ 3 = ☐	36 ÷ 3 = ☐	45 ÷ 5 = ☐	6 ÷ 6 = ☐	35 ÷ 7 = ☐
63 ÷ 9 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain used a decoder ring, then whistled to a parrot.
2. The villain checked a brass compass, then carried a small gecko.
3. The villain used a grappling hook, then fed a sneaky monkey.
4. The villain read a map scroll, then whistled to a parrot.
5. The villain lit a torch light, then fed a sneaky monkey.
6. The villain read a map scroll, then carried a small gecko.
7. The villain used a grappling hook, then whistled to a parrot.
8. The villain used a grappling hook, then signaled a fruit bat.
9. The villain read a map scroll, then petted a green iguana.
10. The villain lit a torch light, then signaled a fruit bat.
11. The villain checked a brass compass, then petted a green iguana.
12. The villain used a decoder ring, then fed a sneaky monkey.

TEACHER / PARENT

Answer Key

The Mystery of Skull Rock Temple

Culprit: Leo Lumber

Map Scroll · Gecko · Right Shoulder Strap · Leather Cap · Loud Whistles

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SNEAKY VILLAIN DOES NOT HAVE AN IGUANA"

1/3 of 36 = 12 (T) · 2/10 of 25 = 5 (G) · 3/4 of 20 = 15 (K) · 5/10 of 68 = 34 (I) · 4/8 of 76 = 38 (H) · 4/8 of 80 = 40 (L) · 4/8 of 74 = 37 (A) · 8/10 of 10 = 8 (S) · 1/5 of 130 = 26 (Y) · 1/8 of 24 = 3 (N) · 2/10 of 115 = 23 (O) · 3/6 of 50 = 25 (V) · 2/4 of 28 = 14 (U) · 3/6 of 20 = 10 (D) · 5/10 of 18 = 9 (E)

Clue 2 (Order of operations): "THE WITNESS NOTICED A RIGHT SHOULDER STRAP"

4 × 9 - 14 = 22 (T) · 7 + 4 × 4 = 23 (U) · 73 + 2 × 3 = 79 (E) · 4 × 6 - 16 = 8 (G) · 26 + 4 × 9 = 62 (L) · 14 + 7 × 5 = 49 (H) · 3 + 3 × 3 = 12 (I) · 6 × 8 - 3 = 45 (R) · 1 + 4 × 3 = 13 (P) · 2 × 8 - 2 = 14 (A) · 3 + 3 × 4 = 15 (O) · 54 + 8 × 3 = 78 (N) · 8 × 9 - 4 = 68 (S) · 9 × 11 - 19 = 80 (C) · 11 × 5 - 7 = 48 (W) · 43 + 8 × 4 = 75 (D)

Clue 3 (Multiplication facts (1-12)): "LOUD WHISTLES MADE THE SNOOP RUN AWAY"

9 × 3 = 27 (L) · 12 × 3 = 36 (R) · 7 × 7 = 49 (W) · 4 × 4 = 16 (T) · 2 × 4 = 8 (U) · 4 × 8 = 32 (S) · 11 × 10 = 110 (I) · 3 × 1 = 3 (P) · 11 × 12 = 132 (D) · 7 × 12 = 84 (H) · 5 × 9 = 45 (O) · 3 × 5 = 15 (E) · 7 × 10 = 70 (M) · 2 × 10 = 20 (A) · 6 × 11 = 66 (Y) · 1 × 4 = 4 (N)

Clue 4 (Rounding): "A LEATHER CAP WAS LEFT AT THE SCENE"

Round 173 to the nearest ten = 170 (A) · Round 431 to the nearest ten = 430 (N) · Round 2,258 to the nearest hundred = 2300 (L) · Round 374 to the nearest ten = 370 (C) · Round 1,711 to the nearest hundred = 1700 (R) · Round 113 to the nearest ten = 110 (F) · Round 52 to the nearest ten = 50 (S) · Round 21 to the nearest ten = 20 (T) · Round 922 to the nearest hundred = 900 (W) · Round 67 to the nearest ten = 70 (E) · Round 8,734 to the nearest thousand = 9000 (H) · Round 5,402 to the nearest thousand = 5000 (P)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Leo Lumber

36 ÷ 9 = 4 · 10 ÷ 1 = 10 · 14 ÷ 7 = 2 · 48 ÷ 6 = 8 · 44 ÷ 4 = 11 · 9 ÷ 3 = 3 · 36 ÷ 3 = 12 · 45 ÷ 5 = 9 · 6 ÷ 6 = 1 · 35 ÷ 7 = 5 · 63 ÷ 9 = 7