



The Secret of the Sunken Temple

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

Detective: _____ Date: _____

A secret golden idol was taken from the Sunken Temple of Whispers! The Chief Archaeologist needs your help to examine the evidence, decode temple clues, and uncover the sneaky Temple Thief before they escape the jungle.

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 Thief is _____

Possible suspects

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

NAME	GEAR TOOL	ESCAPE ITEM	DOMINANT HAND	HAIRSTYLE	WEAKNESS
Maya Lin	Rope Dart	Glider Pack	Left Handed	Short Hair	Loud Whistles
Jax Stone	Grappling Hook	Mud Boots	Right Handed	Spiky Hair	Loud Whistles
Milo Dash	Torch Flash	Night Goggles	Left Handed	Spiky Hair	Water Sprays
Noah Shaw	Grappling Hook	Mud Boots	Left Handed	Braided Hair	Loud Whistles
Eli Vance	Torch Flash	Night Goggles	Left Handed	Spiky Hair	Bright Lights
Owen King	Rope Dart	Night Goggles	Left Handed	Braided Hair	Loud Whistles
Nora Gray	Compass Spin	Glider Pack	Left Handed	Short Hair	Bright Lights
Aria Finch	Rope Dart	Night Goggles	Left Handed	Short Hair	Bright Lights
Ruby West	Grappling Hook	Vine Whip	Right Handed	Braided Hair	Bright Lights
Kai Diaz	Compass Spin	Vine Whip	Right Handed	Short Hair	Bright Lights
Leo Cruz	Compass Spin	Glider Pack	Right Handed	Spiky Hair	Bright Lights
Tess Drake	Rope Dart	Mud Boots	Left Handed	Spiky Hair	Bright Lights
Cleo Holt	Rope Dart	Night Goggles	Left Handed	Braided Hair	Bright Lights
Ben Cole	Torch Flash	Night Goggles	Left Handed	Spiky Hair	Loud Whistles
Ivy Chen	Compass Spin	Night Goggles	Left Handed	Spiky Hair	Bright Lights
Hugo Frost	Smoke Bomb	Mud Boots	Left Handed	Spiky Hair	Bright Lights
Finn Bell	Torch Flash	Vine Whip	Left Handed	Braided Hair	Water Sprays
Liam Bair	Torch Flash	Night Goggles	Right Handed	Braided Hair	Loud Whistles
Sam Park	Compass Spin	Vine Whip	Left Handed	Spiky Hair	Bright Lights
Ava Reed	Rope Dart	Glider Pack	Right Handed	Short Hair	Water Sprays
Zoe Hall	Torch Flash	Shield Charm	Right Handed	Braided Hair	Water Sprays

CLUE 1

Fractions of a number

You open the explorer notebook to calculate supplies before following the villain footprints.

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

T																T
6	36	17	27	11	21	21	12	11	19	18	40	17	14	19	40	6

26	14	17	12	27	11	19	17	25	36	11	9	

$1/8 \text{ of } 48 = \square \rightarrow \boxed{\text{T}}$

$4/6 \text{ of } 60 = \square \rightarrow \boxed{\text{O}}$

$1/8 \text{ of } 112 = \square \rightarrow \boxed{\text{S}}$

$1/8 \text{ of } 96 = \square \rightarrow \boxed{\text{A}}$

$2/6 \text{ of } 81 = \square \rightarrow \boxed{\text{V}}$

$4/8 \text{ of } 38 = \square \rightarrow \boxed{\text{N}}$

$1/5 \text{ of } 85 = \square \rightarrow \boxed{\text{E}}$

$1/3 \text{ of } 78 = \square \rightarrow \boxed{\text{U}}$

$6/8 \text{ of } 12 = \square \rightarrow \boxed{\text{P}}$

$4/10 \text{ of } 90 = \square \rightarrow \boxed{\text{H}}$

$4/10 \text{ of } 45 = \square \rightarrow \boxed{\text{D}}$

$1/2 \text{ of } 22 = \square \rightarrow \boxed{\text{I}}$

$5/10 \text{ of } 50 = \square \rightarrow \boxed{\text{W}}$

$3/6 \text{ of } 42 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 2

Word problems

A hidden door needs a fraction of the crystal tiles unlocked to show the next clue.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was L D D .

34 93 51 66 22 88 83 93

Explorers found 16 map scrolls yesterday and 18 more today. How many map scrolls in all?

Answer: → L

Explorers lined up 11 rows of 2 ancient keys. How many ancient keys in all?

Answer: → H

Explorers found 24 gold coins yesterday and 42 more today. How many gold coins in all?

Answer: → T

There were 123 map scrolls. 40 were used up. How many map scrolls are left?

Answer: → N

Explorers found 70 compasses yesterday and 18 more today. How many compasses in all?

Answer: → A

Explorers found 24 gold coins yesterday and 27 more today. How many gold coins in all?

Answer: → F

There were 114 gold coins. 21 were used up. How many gold coins are left?

Answer: → E

Scratch space:

CLUE 3

Order of operations

To disarm a temple puzzle lock you must solve the step by step code sequence.

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

A			A															
72	21	30	72	50	22	44	21	65	73	11	28	22	53	30	11	28	22	53

		A											
50	24	72	73	17	74	53	22	17	53	22	11	17	21

$27 + 5 \times 9 = \square \rightarrow \boxed{\text{A}}$

$11 \times 8 - 15 = \square \rightarrow \boxed{\text{R}}$

$22 + 2 \times 4 = \square \rightarrow \boxed{\text{L}}$

$5 \times 5 - 3 = \square \rightarrow \boxed{\text{H}}$

$4 + 8 \times 5 = \square \rightarrow \boxed{\text{O}}$

$25 + 7 \times 7 = \square \rightarrow \boxed{\text{D}}$

$7 \times 8 - 6 = \square \rightarrow \boxed{\text{S}}$

$10 \times 6 - 7 = \square \rightarrow \boxed{\text{T}}$

$11 \times 4 - 23 = \square \rightarrow \boxed{\text{F}}$

$24 + 2 \times 2 = \square \rightarrow \boxed{\text{G}}$

$9 \times 9 - 16 = \square \rightarrow \boxed{\text{B}}$

$9 \times 5 - 21 = \square \rightarrow \boxed{\text{C}}$

$9 \times 2 - 1 = \square \rightarrow \boxed{\text{E}}$

$4 \times 10 - 29 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

You count the rows of ancient stone statues lining the secret hallway.

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

S										S						S			
90	21	15	40	42	121	11	15	100	90	21	15	144	144	90	55	70	30		
24	100	55	45	70	9	63	20	100	30	121	20	121	55	55	63				

$9 \times 10 = \square \rightarrow \text{S}$

$1 \times 11 = \square \rightarrow \text{A}$

$5 \times 6 = \square \rightarrow \text{T}$

$5 \times 9 = \square \rightarrow \text{M}$

$6 \times 7 = \square \rightarrow \text{Y}$

$10 \times 10 = \square \rightarrow \text{R}$

$5 \times 4 = \square \rightarrow \text{E}$

$11 \times 11 = \square \rightarrow \text{H}$

$9 \times 1 = \square \rightarrow \text{N}$

$3 \times 8 = \square \rightarrow \text{F}$

$10 \times 7 = \square \rightarrow \text{U}$

$12 \times 12 = \square \rightarrow \text{L}$

$5 \times 3 = \square \rightarrow \text{I}$

$7 \times 9 = \square \rightarrow \text{D}$

$7 \times 3 = \square \rightarrow \text{P}$

$10 \times 4 = \square \rightarrow \text{K}$

$5 \times 11 = \square \rightarrow \text{O}$

Scratch space:

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

The final trap requires dividing the stone counterweights evenly to open the escape vault.

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:

$45 \div 9 = \boxed{}$

$48 \div 12 = \boxed{}$

$42 \div 7 = \boxed{}$

$12 \div 6 = \boxed{}$

$44 \div 4 = \boxed{}$

$21 \div 7 = \boxed{}$

$24 \div 3 = \boxed{}$

$49 \div 7 = \boxed{}$

$144 \div 12 = \boxed{}$

$54 \div 6 = \boxed{}$

$12 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain spun a glowing compass, then marched away in mud boots.
2. The villain flashed a bright torch beam, then blocked the path with a shield charm.
3. The villain threw a golden rope dart, then escaped with a glider pack.
4. The villain threw a golden rope dart, then marched away in mud boots.
5. The villain flashed a bright torch beam, then vanished using night goggles.
6. The villain tossed a blinding smoke bomb, then marched away in mud boots.
7. The villain swung across the canyon, then escaped with a glider pack.
8. The villain spun a glowing compass, then lashed out with a vine whip.
9. The villain flashed a bright torch beam, then escaped with a glider pack.
10. The villain spun a glowing compass, then vanished using night goggles.
11. The villain flashed a bright torch beam, then lashed out with a vine whip.
12. The villain tossed a blinding smoke bomb, then blocked the path with a shield charm.

Answer Key

The Secret of the Sunken Temple

Culprit: Ivy Chen

Compass Spin · Night Goggles · Left Handed · Spiky Hair · Bright Lights

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE A VINE WHIP"

$\frac{1}{8}$ of 48 = 6 (T) · $\frac{4}{6}$ of 60 = 40 (O) · $\frac{1}{8}$ of 112 = 14 (S) · $\frac{1}{8}$ of 96 = 12 (A) · $\frac{2}{6}$ of 81 = 27 (V) · $\frac{4}{8}$ of 38 = 19 (N) · $\frac{1}{5}$ of 85 = 17 (E) · $\frac{1}{3}$ of 78 = 26 (U) · $\frac{6}{8}$ of 12 = 9 (P) · $\frac{4}{10}$ of 90 = 36 (H) · $\frac{4}{10}$ of 45 = 18 (D) · $\frac{1}{2}$ of 22 = 11 (I) · $\frac{5}{10}$ of 50 = 25 (W) · $\frac{3}{6}$ of 42 = 21 (L)

Clue 2 (Word problems): "LEFT HANDED"

Explorers found 16 map scrolls yesterday and 18 more today. How many map scrolls in all? = 34 (L) · Explorers lined up 11 rows of 2 ancient keys. How many ancient keys in all? = 22 (H) · Explorers found 24 gold coins yesterday and 42 more today. How many gold coins in all? = 66 (T) · There were 123 map scrolls. 40 were used up. How many map scrolls are left? = 83 (N) · Explorers found 70 compasses yesterday and 18 more today. How many compasses in all? = 88 (A) · Explorers found 24 gold coins yesterday and 27 more today. How many gold coins in all? = 51 (F) · There were 114 gold coins. 21 were used up. How many gold coins are left? = 93 (E)

Clue 3 (Order of operations): "A FLASH OF BRIGHT LIGHT SCARED THE THIEF"

$27 + 5 \times 9 = 72$ (A) · $11 \times 8 - 15 = 73$ (R) · $22 + 2 \times 4 = 30$ (L) · $5 \times 5 - 3 = 22$ (H) · $4 + 8 \times 5 = 44$ (O) · $25 + 7 \times 7 = 74$ (D) · $7 \times 8 - 6 = 50$ (S) · $10 \times 6 - 7 = 53$ (T) · $11 \times 4 - 23 = 21$ (F) · $24 + 2 \times 2 = 28$ (G) · $9 \times 9 - 16 = 65$ (B) · $9 \times 5 - 21 = 24$ (C) · $9 \times 2 - 1 = 17$ (E) · $4 \times 10 - 29 = 11$ (I)

Clue 4 (Multiplication facts (1-12)): "SPIKY HAIR SPILLS OUT FROM UNDER THE HOOD"

$9 \times 10 = 90$ (S) · $1 \times 11 = 11$ (A) · $5 \times 6 = 30$ (T) · $5 \times 9 = 45$ (M) · $6 \times 7 = 42$ (Y) · $10 \times 10 = 100$ (R) · $5 \times 4 = 20$ (E) · $11 \times 11 = 121$ (H) · $9 \times 1 = 9$ (N) · $3 \times 8 = 24$ (F) · $10 \times 7 = 70$ (U) · $12 \times 12 = 144$ (L) · $5 \times 3 = 15$ (I) · $7 \times 9 = 63$ (D) · $7 \times 3 = 21$ (P) · $10 \times 4 = 40$ (K) · $5 \times 11 = 55$ (O)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Ivy Chen

$45 \div 9 = 5$ · $48 \div 12 = 4$ · $42 \div 7 = 6$ · $12 \div 6 = 2$ · $44 \div 4 = 11$ · $21 \div 7 = 3$ · $24 \div 3 = 8$ · $49 \div 7 = 7$ · $144 \div 12 = 12$ · $54 \div 6 = 9$ · $12 \div 12 = 1$