



The Whispering Temple Mystery

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

Detective: _____ **Date:** _____

Someone snuck into the Whispering Temple and snatched the Golden Sunstone! The Head Curator needs your junior explorer team to crack the clues, track down the sneaky rival explorer, and save the day.

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 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	SIGNATURE TOOL	SPECIAL GEAR	FAVORITE BEVERAGE	HAT COLOR	FEAR
Owen Outpost	magnifying glass	night goggles	drinks warm cocoa	dusty brown hat	scared of heights
Diego Rescue	pocket compass	waterproof map	drinks warm cocoa	dusty brown hat	scared of heights
Lily Leaf	magnifying glass	night goggles	drinks cold juice	dusty brown hat	scared of the dark
Ruby Ruins	laser pointer	walkie talkie	drinks cold juice	forest green hat	scared of heights
Ella Emerald	decoder ring	waterproof map	drinks cold juice	dusty brown hat	scared of heights
Mia Mountain	decoder ring	night goggles	drinks cold juice	forest green hat	scared of spiders
Ben Boulder	laser pointer	night goggles	drinks warm cocoa	dusty brown hat	scared of heights
Penny Map	laser pointer	night goggles	drinks cold juice	dusty brown hat	scared of the dark
Maya Maze	decoder ring	climbing boots	drinks warm cocoa	bright red hat	scared of spiders
Luke Light	pocket compass	climbing boots	drinks warm cocoa	forest green hat	scared of the dark
Cleo Nile	grappling hook	climbing boots	drinks cold juice	dusty brown hat	scared of the dark
Finn Forest	pocket compass	headlamp	drinks cold juice	dusty brown hat	scared of spiders
Cole Canyon	magnifying glass	headlamp	drinks cold juice	forest green hat	scared of the dark
Dora Explorer	grappling hook	headlamp	drinks warm cocoa	dusty brown hat	scared of heights
Lara Craft	grappling hook	walkie talkie	drinks cold juice	bright red hat	scared of the dark
Sam Temple	pocket compass	walkie talkie	drinks cold juice	bright red hat	scared of the dark
Toby Trail	magnifying glass	headlamp	drinks cold juice	dusty brown hat	scared of heights
Zoe Zoom	pocket compass	climbing boots	drinks cold juice	dusty brown hat	scared of heights
Max Quick	laser pointer	headlamp	drinks cold juice	dusty brown hat	scared of heights
Daisy Digger	pocket compass	waterproof map	drinks cold juice	dusty brown hat	scared of spiders
Indy Jones	laser pointer	climbing boots	drinks cold juice	dusty brown hat	scared of heights

CLUE 1

To unlock the temple outer gate your team must solve the puzzle carvings left by the builders. Use your notes to tally up the ancient symbols.

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

Two rows of 15 empty boxes each. In the first row, the first box contains a letter 'T' and the number 22 below it. The second box contains the number 9 below it. The third box contains the number 40 below it. The fourth box contains the number 38 below it. The fifth box contains the number 35 below it. The sixth box contains the number 39 below it. The seventh box contains the number 39 below it. The eighth box contains the number 12 below it. The ninth box contains the number 35 below it. The tenth box contains the number 26 below it. The eleventh box contains the number 10 below it. The twelfth box contains the number 18 below it. The thirteenth box contains the number 40 below it. The fourteenth box contains the number 19 below it. The fifteenth box contains the number 26 below it. In the second row, the first box contains the number 13 below it. The second box contains the number 12 below it. The third box contains the number 21 below it. The fourth box contains the number 21 below it. The fifth box contains the number 16 below it. The sixth box contains the number 12 below it. The seventh box contains the number 4 below it. The eighth box contains the number 12 below it. The ninth box contains a letter 'T' and the number 22 below it. The tenth box contains the number 40 below it. The eleventh box contains the number 21 below it. The twelfth box contains the number 20 below it. The thirteenth box contains the number 21 below it. The fourteenth box contains the number 18 below it. The fifteenth box contains the number 18 below it. In the third row, the first box contains the number 29 below it. The second box contains the number 12 below it. The third box contains the number 20 below it.

$$2/10 \text{ of } 130 = \boxed{} \rightarrow \mathbf{N}$$

Scratch space:

CLUE 2

Word problems

The map is torn into pieces. We need to figure out exactly what fraction of the map leads to the inner chamber.

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

A witness saw the villain was

D							O	L	D	J	U			E	.
116	80	75	110	40	19	23			116			75	23		

There were 122 vines. 6 were used up. How many vines are left?

Answer: → **D**

Scout found 4 old maps yesterday and 19 more today. How many old maps in all?

Answer: → **C**

Scout found 57 gemstones yesterday and 18 more today. How many gemstones in all?

Answer: → **I**

Scout found 11 vines yesterday and 8 more today. How many vines in all?

Answer: → **S**

Scout found 106 gemstones yesterday and 4 more today. How many gemstones in all?

Answer: → **N**

Scout lined up 8 rows of 10 golden coins. How many golden coins in all?

Answer: → **R**

Scout lined up 10 rows of 4 old maps. How many old maps in all?

Answer: → **K**

Scratch space:

CLUE 3

Order of operations

A heavy stone door blocks the path. To open it you must enter the correct code by solving the multi step formula carved into the lock.

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

T										T				
69	74	55	77	70	55	27	41	25	69	74	12	55	31	
							T							
43	55	31	68	77	55	67	69	46	75	18	12	72	7	74 12 20 74

$12 \times 7 - 15 = \square \rightarrow \boxed{\text{T}}$

$66 + 3 \times 2 = \square \rightarrow \boxed{\text{M}}$

$4 \times 8 - 5 = \square \rightarrow \boxed{\text{A}}$

$11 \times 9 - 22 = \square \rightarrow \boxed{\text{S}}$

$7 \times 3 - 14 = \square \rightarrow \boxed{\text{B}}$

$22 + 3 \times 8 = \square \rightarrow \boxed{\text{O}}$

$8 + 4 \times 3 = \square \rightarrow \boxed{\text{G}}$

$11 \times 8 - 18 = \square \rightarrow \boxed{\text{N}}$

$27 + 7 \times 2 = \square \rightarrow \boxed{\text{K}}$

$6 + 2 \times 6 = \square \rightarrow \boxed{\text{L}}$

$3 + 4 \times 7 = \square \rightarrow \boxed{\text{F}}$

$8 \times 9 - 4 = \square \rightarrow \boxed{\text{U}}$

$8 + 2 \times 2 = \square \rightarrow \boxed{\text{I}}$

$5 \times 10 - 25 = \square \rightarrow \boxed{\text{Y}}$

$9 \times 11 - 25 = \square \rightarrow \boxed{\text{H}}$

$16 + 9 \times 3 = \square \rightarrow \boxed{\text{R}}$

$42 + 5 \times 5 = \square \rightarrow \boxed{\text{D}}$

$51 + 2 \times 2 = \square \rightarrow \boxed{\text{E}}$

$66 + 3 \times 3 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

Inside the supply room you find neat rows of old wooden chests. Counting them all by rows will help you find the hidden key.

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

B																	
3	120	21	77	84	40	70	6	56	144	120	21	14	55	30	55	56	

77	55	6	6	7	72	4	4	36	40

$3 \times 1 = \square \rightarrow \text{B}$

$4 \times 9 = \square \rightarrow \text{E}$

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

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

$1 \times 7 = \square \rightarrow \text{P}$

$7 \times 2 = \square \rightarrow \text{M}$

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

$12 \times 6 = \square \rightarrow \text{I}$

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

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

$10 \times 12 = \square \rightarrow \text{R}$

$11 \times 7 = \square \rightarrow \text{W}$

$1 \times 4 = \square \rightarrow \text{L}$

$7 \times 8 = \square \rightarrow \text{T}$

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

$7 \times 12 = \square \rightarrow \text{N}$

$6 \times 1 = \square \rightarrow \text{S}$

Scratch space:

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

To safely cross the swinging bridge your team must share the weight of the rescue gear equally among all the packs.

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:

$12 \div 4 = \boxed{}$

$24 \div 12 = \boxed{}$

$30 \div 5 = \boxed{}$

$40 \div 8 = \boxed{}$

$42 \div 6 = \boxed{}$

$132 \div 11 = \boxed{}$

$99 \div 9 = \boxed{}$

$18 \div 2 = \boxed{}$

$12 \div 3 = \boxed{}$

$6 \div 6 = \boxed{}$

$120 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain unlocked the secret safe with a decoder ring, then lit up the ancient drawings using a headlamp.
2. The villain blinded the security camera with a laser pointer, then scaled the stone wall using climbing boots.
3. The villain found the temple center with a pocket compass, then scaled the stone wall using climbing boots.
4. The villain spotted the hidden button with a magnifying glass, then whispered to an accomplice using a walkie talkie.
5. The villain swung across the pit with a grappling hook, then navigated the flooded tunnel using a waterproof map.
6. The villain spotted the hidden button with a magnifying glass, then lit up the ancient drawings using a headlamp.
7. The villain spotted the hidden button with a magnifying glass, then navigated the flooded tunnel using a waterproof map.
8. The villain blinded the security camera with a laser pointer, then lit up the ancient drawings using a headlamp.
9. The villain unlocked the secret safe with a decoder ring, then scaled the stone wall using climbing boots.
10. The villain unlocked the secret safe with a decoder ring, then whispered to an accomplice using a walkie talkie.
11. The villain swung across the pit with a grappling hook, then lit up the ancient drawings using a headlamp.
12. The villain swung across the pit with a grappling hook, then sneaked through the pitch black hall using night goggles.

Answer Key

The Whispering Temple Mystery

Culprit: Max Quick

laser pointer · headlamp · drinks cold juice · dusty brown hat · scared of heights

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

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT CARRY A WATERPROOF MAP"

$5/10$ of 44 = 22 (T) · $1/6$ of 78 = 13 (C) · $1/3$ of 36 = 12 (A) · $5/6$ of 48 = 40 (E) · $3/6$ of 20 = 10 (D) · $1/5$ of 145 = 29 (M) · $5/10$ of 38 = 19 (S) · $1/6$ of 96 = 16 (Y) · $1/2$ of 74 = 37 (F) · $2/4$ of 78 = 39 (L) · $5/8$ of 56 = 35 (I) · $9/10$ of 20 = 18 (O) · $3/4$ of 28 = 21 (R) · $1/4$ of 16 = 4 (W) · $3/10$ of 30 = 9 (H) · $1/2$ of 40 = 20 (P) · $2/10$ of 190 = 38 (V) · $2/10$ of 130 = 26 (N)

Clue 2 (Word problems): "DRINKS COLD JUICE"

There were 122 vines. 6 were used up. How many vines are left? = 116 (D) · Scout found 4 old maps yesterday and 19 more today. How many old maps in all? = 23 (C) · Scout found 57 gemstones yesterday and 18 more today. How many gemstones in all? = 75 (I) · Scout found 11 vines yesterday and 8 more today. How many vines in all? = 19 (S) · Scout found 106 gemstones yesterday and 4 more today. How many gemstones in all? = 110 (N) · Scout lined up 8 rows of 10 golden coins. How many golden coins in all? = 80 (R) · Scout lined up 10 rows of 4 old maps. How many old maps in all? = 40 (K)

Clue 3 (Order of operations): "THE SNEAKY THIEF REFUSED TO CLIMB HIGH"

$12 \times 7 - 15 = 69$ (T) · $66 + 3 \times 2 = 72$ (M) · $4 \times 8 - 5 = 27$ (A) · $11 \times 9 - 22 = 77$ (S) · $7 \times 3 - 14 = 7$ (B) · $22 + 3 \times 8 = 46$ (O) · $8 + 4 \times 3 = 20$ (G) · $11 \times 8 - 18 = 70$ (N) · $27 + 7 \times 2 = 41$ (K) · $6 + 2 \times 6 = 18$ (L) · $3 + 4 \times 7 = 31$ (F) · $8 \times 9 - 4 = 68$ (U) · $8 + 2 \times 2 = 12$ (I) · $5 \times 10 - 25 = 25$ (Y) · $9 \times 11 - 25 = 74$ (H) · $16 + 9 \times 3 = 43$ (R) · $42 + 5 \times 5 = 67$ (D) · $51 + 2 \times 2 = 55$ (E) · $66 + 3 \times 3 = 75$ (C)

Clue 4 (Multiplication facts (1-12)): "BROWN DUST FROM A HAT WAS SPILLED"

$3 \times 1 = 3$ (B) · $4 \times 9 = 36$ (E) · $5 \times 6 = 30$ (H) · $11 \times 5 = 55$ (A) · $1 \times 7 = 7$ (P) · $7 \times 2 = 14$ (M) · $3 \times 7 = 21$ (O) · $12 \times 6 = 72$ (I) · $4 \times 10 = 40$ (D) · $7 \times 10 = 70$ (U) · $10 \times 12 = 120$ (R) · $11 \times 7 = 77$ (W) · $1 \times 4 = 4$ (L) · $7 \times 8 = 56$ (T) · $12 \times 12 = 144$ (F) · $7 \times 12 = 84$ (N) · $6 \times 1 = 6$ (S)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Max Quick

$12 \div 4 = 3$ · $24 \div 12 = 2$ · $30 \div 5 = 6$ · $40 \div 8 = 5$ · $42 \div 6 = 7$ · $132 \div 11 = 12$ · $99 \div 9 = 11$ · $18 \div 2 = 9$ · $12 \div 3 = 4$ · $6 \div 6 = 1$ · $120 \div 12 = 10$