



The Mystery of Whispering Temple

Grade 4 math · Fractions of a number, Rounding, Addition, Subtraction · Reading level grades 3-4

Detective: _____ Date: _____

Someone broke into the Whispering Temple and snagged the ancient Golden Sun Compass! The expedition team needs your help to solve clues, narrow down the suspects, and catch the sneaky raider.

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 Raider 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	SPECIAL TOOL	DOMINANT HAND	HAT COLOR	FEARED ELEMENT
Ranger Finn	Glider Wings	Compass Ring	Left Handed	Ruby Red	Loud Whistles
Dr Arlo	Glider Wings	Compass Ring	Left Handed	Cobalt Blue	Loud Whistles
Pilot Zuri	Machete Blade	Decodable Map	Left Handed	Cobalt Blue	Bright Light
Tracker Bram	Climbing Claws	Rope Launcher	Right Handed	Cobalt Blue	Loud Whistles
Pilot Bodhi	Glider Wings	Laser Torch	Left Handed	Cobalt Blue	Cold Water
Explorer Maya	Smoke Bombs	Compass Ring	Left Handed	Emerald Green	Bright Light
Ranger Otto	Climbing Claws	Laser Torch	Left Handed	Cobalt Blue	Loud Whistles
Dr Mina	Machete Blade	Signal Flare	Right Handed	Ruby Red	Loud Whistles
Explorer Tessa	Glider Wings	Decodable Map	Right Handed	Cobalt Blue	Cold Water
Agent Kiki	Glider Wings	Rope Launcher	Right Handed	Cobalt Blue	Loud Whistles
Ranger Jax	Machete Blade	Signal Flare	Left Handed	Cobalt Blue	Loud Whistles
Explorer Ruby	Glider Wings	Compass Ring	Left Handed	Emerald Green	Loud Whistles
Scout Iris	Grappling Hook	Compass Ring	Left Handed	Cobalt Blue	Loud Whistles
Guide Eli	Smoke Bombs	Signal Flare	Right Handed	Ruby Red	Loud Whistles
Guide Mateo	Glider Wings	Rope Launcher	Right Handed	Emerald Green	Loud Whistles
Tracker Chloe	Machete Blade	Signal Flare	Right Handed	Cobalt Blue	Cold Water
Professor Leo	Smoke Bombs	Decodable Map	Right Handed	Ruby Red	Loud Whistles
Dr Sam	Machete Blade	Signal Flare	Left Handed	Cobalt Blue	Bright Light
Captain Cleo	Smoke Bombs	Decodable Map	Left Handed	Cobalt Blue	Loud Whistles
Guide Ezra	Smoke Bombs	Rope Launcher	Right Handed	Ruby Red	Loud Whistles
Agent Hugo	Grappling Hook	Laser Torch	Left Handed	Emerald Green	Bright Light

CLUE 1

Fractions of a number

You discover a fraction of the temple map showing where the raider searched.

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

T			T															
12	29	8	12	8	5	30	31	8	36	23	3	32	8	36	32	28	8	40
		T											T					
22	28	12	33	40	8	23	31	23	40	8	36	12	28	36	20	29		

$$4/8 \text{ of } 24 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$4/10 \text{ of } 100 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2/10 \text{ of } 115 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$5/6 \text{ of } 36 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$2/4 \text{ of } 64 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$3/6 \text{ of } 10 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$1/8 \text{ of } 176 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3/6 \text{ of } 56 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$2/8 \text{ of } 116 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$1/8 \text{ of } 24 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2/4 \text{ of } 72 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$3/6 \text{ of } 66 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1/2 \text{ of } 62 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2/4 \text{ of } 16 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$5/8 \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{C}}$$

Scratch space:

CLUE 2

The sensor array on the temple wall rounds its energy reading to the nearest ten.

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

Diagram illustrating the distribution of 10000 people across 10000 houses. The houses are arranged in two rows of 5000. The first row has 50 houses with 2900, 1100, 2300, 1700, and 170 people respectively, and 50 houses with 30, 700, 130, 90, and 1700 people respectively. The second row has 50 houses with 9000, 50, and 900 people respectively, and 50 houses with 2300, 2000, 290, 90, and 430 people respectively. The house with 50 people in the first row is highlighted in orange.

Round 48 to the nearest ten $\rightarrow$ **A**

Round 8,767 to the nearest thousand → **W**

Round 2,316 to the nearest hundred → **F**

Round 126 to the nearest ten $\rightarrow$

Round 430 to the nearest ten $\rightarrow$ **D**

Round 169 to the nearest ten $\rightarrow$ **Y**

Round 29 to the nearest ten $\rightarrow$ **P**

Round 288 to the nearest ten $\rightarrow$ **U**

Round 692 to the nearest hundred $\rightarrow$ **R**

Round 854 to the nearest hundred $\rightarrow$ **S**

Round 262 to the nearest hundred → **H**

Round 1,087 to the nearest hundred $\rightarrow$ **E**

Round 2,064 to the nearest thousand $\rightarrow$

Round 2,904 to the nearest hundred $\rightarrow$ **L**

Round 87 to the nearest ten $\rightarrow$ **N**

Round 1,672 to the nearest hundred → **T**

Scratch space:

CLUE 3
Addition

You add up the dropped supplies left behind near the escape tunnel.

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

T																			
4046	4775	3308	2689	2821	8080	6757	3308	2689	4396	2965	4421	3308	2689	3308	6757	3308	2821	2689	8192

2887	2689	2965	8471	4460	2965	4285	6757	2577	4775	8080	8192	4046	4460	3308	8192				

$2148 + 1898 = \square \rightarrow \text{**T**}$

$1980 + 2416 = \square \rightarrow \text{**C**}$

$1028 + 1661 = \square \rightarrow \text{**R**}$

$1637 + 2648 = \square \rightarrow \text{**U**}$

$3090 + 1370 = \square \rightarrow \text{**L**}$

$1662 + 2759 = \square \rightarrow \text{**V**}$

$919 + 1968 = \square \rightarrow \text{**F**}$

$1274 + 1303 = \square \rightarrow \text{**W**}$

$1911 + 2864 = \square \rightarrow \text{**H**}$

$1260 + 1561 = \square \rightarrow \text{**A**}$

$5205 + 2987 = \square \rightarrow \text{**S**}$

$2924 + 3833 = \square \rightarrow \text{**D**}$

$1733 + 1575 = \square \rightarrow \text{**E**}$

$4148 + 4323 = \square \rightarrow \text{**M**}$

$1588 + 1377 = \square \rightarrow \text{**O**}$

$2727 + 5353 = \square \rightarrow \text{**I**}$

Scratch space:

CLUE 4
Subtraction

You calculate the stolen weight by subtracting what remains in the chest.

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

A				A												
3049	1576	1553	6865	3049	7657	2260	6865	7657	2096	5904	7368	3049	6865	3952	6185	1576

						A				A					
2466	2260	3952	6185	1201	7003	3049	2466	1553	6263	3049	2260	6956	1553	3952	6263

$3625 - 576 = \square \rightarrow \text{A}$

$6669 - 4203 = \square \rightarrow \text{S}$

$11643 - 3986 = \square \rightarrow \text{L}$

$11738 - 4873 = \square \rightarrow \text{B}$

$2057 - 504 = \square \rightarrow \text{O}$

$6611 - 4351 = \square \rightarrow \text{T}$

$7232 - 969 = \square \rightarrow \text{N}$

$8685 - 1682 = \square \rightarrow \text{W}$

$2504 - 1303 = \square \rightarrow \text{P}$

$3679 - 2103 = \square \rightarrow \text{C}$

$8394 - 2209 = \square \rightarrow \text{I}$

$5624 - 1672 = \square \rightarrow \text{R}$

$4624 - 2528 = \square \rightarrow \text{U}$

$6193 - 289 = \square \rightarrow \text{E}$

$9330 - 2374 = \square \rightarrow \text{H}$

$9950 - 2582 = \square \rightarrow \text{F}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

You analyze a fraction of the mysterious footprints leading toward the exit.

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:

$3/6 \text{ of } 12 = \boxed{}$

$1/3 \text{ of } 12 = \boxed{}$

$1/10 \text{ of } 90 = \boxed{}$

$1/5 \text{ of } 10 = \boxed{}$

$1/5 \text{ of } 15 = \boxed{}$

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

$1/5 \text{ of } 5 = \boxed{}$

$5/8 \text{ of } 16 = \boxed{}$

$1/2 \text{ of } 10 = \boxed{}$

$1/5 \text{ of } 60 = \boxed{}$

$2/6 \text{ of } 21 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scaled the tall stone wall with climbing claws, then traced the secret path on a decodable map.
2. The villain cleared a path quickly using a machete blade, then melted the ancient latch with a laser torch.
3. The villain soared over the ravine using glider wings, then marked the exit route with a signal flare.
4. The villain soared over the ravine using glider wings, then unlocked the vault using a compass ring.
5. The villain soared over the ravine using glider wings, then traced the secret path on a decodable map.
6. The villain swung across the pit with a grappling hook, then unlocked the vault using a compass ring.
7. The villain vanished into thin air using smoke bombs, then unlocked the vault using a compass ring.
8. The villain cleared a path quickly using a machete blade, then marked the exit route with a signal flare.
9. The villain vanished into thin air using smoke bombs, then traced the secret path on a decodable map.
10. The villain scaled the tall stone wall with climbing claws, then melted the ancient latch with a laser torch.
11. The villain vanished into thin air using smoke bombs, then marked the exit route with a signal flare.
12. The villain swung across the pit with a grappling hook, then traced the secret path on a decodable map.

Answer Key

The Mystery of Whispering Temple

Culprit: Ranger Jax

Machete Blade · Signal Flare · Left Handed · Cobalt Blue · Loud Whistles

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE TEMPLE RAIDER DOES NOT USE A LASER TORCH"

$\frac{4}{8}$ of 24 = 12 (T) · $\frac{4}{10}$ of 100 = 40 (S) · $\frac{2}{10}$ of 115 = 23 (A) · $\frac{5}{6}$ of 36 = 30 (P) · $\frac{2}{4}$ of 64 = 32 (D) · $\frac{3}{6}$ of 10 = 5 (M) · $\frac{1}{8}$ of 176 = 22 (N) · $\frac{3}{6}$ of 56 = 28 (O) · $\frac{2}{8}$ of 116 = 29 (H) · $\frac{1}{8}$ of 24 = 3 (I) · $\frac{2}{4}$ of 72 = 36 (R) · $\frac{3}{6}$ of 66 = 33 (U) · $\frac{1}{2}$ of 62 = 31 (L) · $\frac{2}{4}$ of 16 = 8 (E) · $\frac{5}{8}$ of 32 = 20 (C)

Clue 2 (Rounding): "A LEFTY PRINT WAS FOUND ON THE STONE DIAL"

Round 48 to the nearest ten = 50 (A) · Round 8,767 to the nearest thousand = 9000 (W) · Round 2,316 to the nearest hundred = 2300 (F) · Round 126 to the nearest ten = 130 (I) · Round 430 to the nearest ten = 430 (D) · Round 169 to the nearest ten = 170 (Y) · Round 29 to the nearest ten = 30 (P) · Round 288 to the nearest ten = 290 (U) · Round 692 to the nearest hundred = 700 (R) · Round 854 to the nearest hundred = 900 (S) · Round 262 to the nearest hundred = 300 (H) · Round 1,087 to the nearest hundred = 1100 (E) · Round 2,064 to the nearest thousand = 2000 (O) · Round 2,904 to the nearest hundred = 2900 (L) · Round 87 to the nearest ten = 90 (N) · Round 1,672 to the nearest hundred = 1700 (T)

Clue 3 (Addition): "THE RAIDER COVERED EARS FROM LOUD WHISTLES"

$2148 + 1898 = 4046$ (T) · $1980 + 2416 = 4396$ (C) · $1028 + 1661 = 2689$ (R) · $1637 + 2648 = 4285$ (U) · $3090 + 1370 = 4460$ (L) · $1662 + 2759 = 4421$ (V) · $919 + 1968 = 2887$ (F) · $1274 + 1303 = 2577$ (W) · $1911 + 2864 = 4775$ (H) · $1260 + 1561 = 2821$ (A) · $5205 + 2987 = 8192$ (S) · $2924 + 3833 = 6757$ (D) · $1733 + 1575 = 3308$ (E) · $4148 + 4323 = 8471$ (M) · $1588 + 1377 = 2965$ (O) · $2727 + 5353 = 8080$ (I)

Clue 4 (Subtraction): "A COBALT BLUE FABRIC STRIP WAS ON A THORN"

$3625 - 576 = 3049$ (A) · $6669 - 4203 = 2466$ (S) · $11643 - 3986 = 7657$ (L) · $11738 - 4873 = 6865$ (B) · $2057 - 504 = 1553$ (O) · $6611 - 4351 = 2260$ (T) · $7232 - 969 = 6263$ (N) · $8685 - 1682 = 7003$ (W) · $2504 - 1303 = 1201$ (P) · $3679 - 2103 = 1576$ (C) · $8394 - 2209 = 6185$ (I) · $5624 - 1672 = 3952$ (R) · $4624 - 2528 = 2096$ (U) · $6193 - 289 = 5904$ (E) · $9330 - 2374 = 6956$ (H) · $9950 - 2582 = 7368$ (F)

Clue 5 (Fractions of a number): surviving statement is box 8 → Ranger Jax

$\frac{3}{6}$ of 12 = 6 · $\frac{1}{3}$ of 12 = 4 · $\frac{1}{10}$ of 90 = 9 · $\frac{1}{5}$ of 10 = 2 · $\frac{1}{5}$ of 15 = 3 · $\frac{1}{2}$ of 22 = 11 · $\frac{1}{5}$ of 5 = 1 · $\frac{5}{8}$ of 16 = 10 · $\frac{1}{2}$ of 10 = 5 · $\frac{1}{5}$ of 60 = 12 · $\frac{2}{6}$ of 21 = 7