The Case of the Sunstone Thief

Grade 5 math · Multiplication, Fractions of a number, Order of operations, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

During a night expedition deep in the jungle, a mysterious figure slipped into the inner sanctuary of the temple and snatched the legendary Golden Sunstone! The Chief Archaeologist needs your detective skills to analyze the trail of evidence, solve the clues, and unmask the culprit 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 relic thief is _____

Possible suspects

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

NAME	MAIN TOOL	SIDE GEAR	DOMINANT HAND	HAIRSTYLE	SECRET WEAKNESS
Lucas Gage	Smoke Bomb	Camouflage Cloak	Right Handed	Braided Ponytail	Loud Whistle
Owen Drake	Paraglider	Decoy Map	Left Handed	Curly Crop	Bright Flashlight
Isaac Vance	Torch Beam	Energy Bar	Left Handed	Curly Crop	Squeaky Toy
Aria Chen	Torch Beam	Decoy Map	Left Handed	Curly Crop	Bright Flashlight
Ivy Wilder	Paraglider	Water Canteen	Left Handed	Curly Crop	Bright Flashlight
Ruby Hayes	Pocket Compass	Signal Flare	Right Handed	Curly Crop	Bright Flashlight
Ethan Hunt	Torch Beam	Energy Bar	Left Handed	Slicked Sweep	Loud Whistle
Grace Finch	Pocket Compass	Signal Flare	Left Handed	Slicked Sweep	Bright Flashlight
Liam Brooks	Pocket Compass	Camouflage Cloak	Left Handed	Slicked Sweep	Squeaky Toy
Dylan Fox	Paraglider	Camouflage Cloak	Left Handed	Curly Crop	Bright Flashlight
Luke Sterling	Smoke Bomb	Water Canteen	Left Handed	Slicked Sweep	Bright Flashlight
Mia Turner	Torch Beam	Water Canteen	Right Handed	Slicked Sweep	Squeaky Toy
Chloe Rivers	Pocket Compass	Camouflage Cloak	Left Handed	Curly Crop	Bright Flashlight
Leo Cruz	Torch Beam	Decoy Map	Right Handed	Braided Ponytail	Loud Whistle
Hazel Knight	Paraglider	Signal Flare	Right Handed	Braided Ponytail	Loud Whistle
Noah Reed	Grappling Hook	Camouflage Cloak	Left Handed	Curly Crop	Squeaky Toy
Mason Cole	Pocket Compass	Water Canteen	Right Handed	Slicked Sweep	Bright Flashlight
Maya Lin	Grappling Hook	Signal Flare	Left Handed	Curly Crop	Squeaky Toy
Tara West	Pocket Compass	Decoy Map	Left Handed	Curly Crop	Bright Flashlight
Caleb Frost	Pocket Compass	Water Canteen	Left Handed	Braided Ponytail	Squeaky Toy
Ella Stone	Paraglider	Water Canteen	Left Handed	Slicked Sweep	Squeaky Toy

CLUE 1 Multiplication facts (1-12)

> Explorer Maya found crates of ancient supplies stacked in equal rows behind the altar. Solve the multiplication problem to unlock the first clue.

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

T																			T					
60	7	27	15	72	21	21	96	72	33	8	32	27	12	33	32	60								
90	12	27	96	100	96	144	32	90	44	21	96	110	27	100	21	32	96	6						

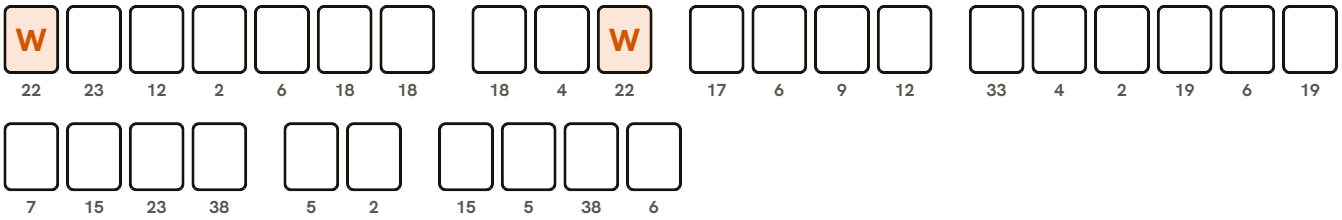
12 × 5 = ☐ → T	1 × 8 = ☐ → D	4 × 11 = ☐ → F
10 × 10 = ☐ → C	10 × 9 = ☐ → U	4 × 8 = ☐ → O
1 × 12 = ☐ → S	7 × 1 = ☐ → H	12 × 12 = ☐ → M
3 × 9 = ☐ → E	10 × 11 = ☐ → G	3 × 7 = ☐ → L
6 × 1 = ☐ → K	11 × 3 = ☐ → N	8 × 12 = ☐ → A
12 × 6 = ☐ → I	5 × 3 = ☐ → V	

Scratch space:

CLUE 2 Fractions of a number

> The team examined a fraction of the temple wall map to find which sector was breached. Solve the fraction problem to reveal the second clue.

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



3/6 of 44 = ☐ → W

1/5 of 85 = ☐ → L

1/10 of 40 = ☐ → A

9/10 of 10 = ☐ → F

2/8 of 48 = ☐ → T

3/4 of 8 = ☐ → E

2/8 of 8 = ☐ → N

1/3 of 45 = ☐ → R

2/4 of 36 = ☐ → S

1/6 of 138 = ☐ → I

1/8 of 152 = ☐ → D

1/4 of 20 = ☐ → O

1/5 of 190 = ☐ → P

2/8 of 28 = ☐ → G

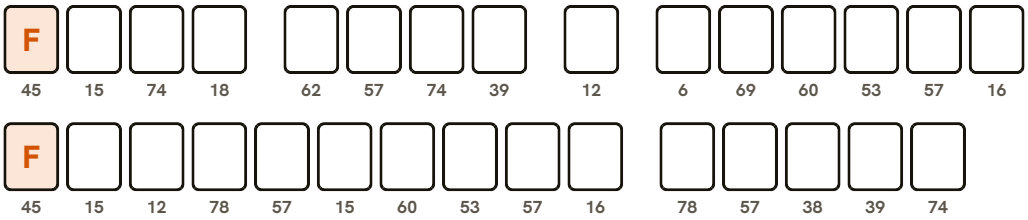
2/8 of 132 = ☐ → H

Scratch space:

CLUE 3 Order of operations

> An ancient stone door lock required solving a multi-step numerical puzzle sequence. Use the order of operations to solve it and get the third clue.

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



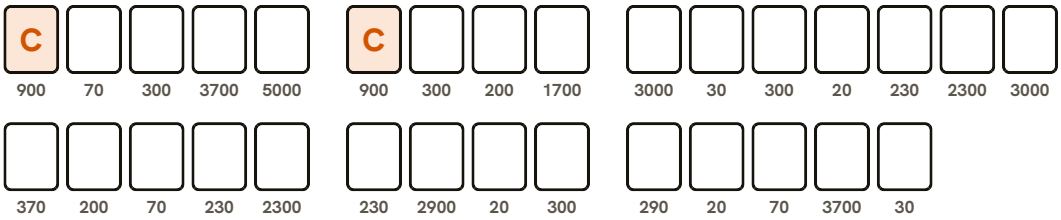
36 + 3 × 3 = ☐ → F	7 × 12 - 22 = ☐ → W	4 × 10 - 2 = ☐ → O
26 + 6 × 8 = ☐ → E	9 + 2 × 3 = ☐ → L	15 + 7 × 9 = ☐ → S
53 + 4 × 4 = ☐ → R	21 + 4 × 9 = ☐ → H	4 + 7 × 5 = ☐ → N
9 × 9 - 28 = ☐ → G	7 × 4 - 22 = ☐ → B	8 + 4 × 2 = ☐ → T
4 + 2 × 7 = ☐ → D	2 + 2 × 5 = ☐ → A	7 × 9 - 3 = ☐ → I

Scratch space:

CLUE 4 Rounding

> The temple security radar only displays rough distance readings rounded to the nearest hundred meters. Round the number to get the fourth clue.

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



Round 941 to the nearest hundred ☐ → C

Round 2,317 to the nearest hundred ☐ → D

Round 3,694 to the nearest hundred ☐ → L

Round 2,558 to the nearest thousand ☐ → S

Round 289 to the nearest ten ☐ → V

Round 4,668 to the nearest thousand ☐ → Y

Round 229 to the nearest hundred ☐ → O

Round 69 to the nearest ten ☐ → U

Round 347 to the nearest hundred ☐ → R

Round 27 to the nearest ten ☐ → T

Round 371 to the nearest ten ☐ → F

Round 230 to the nearest ten ☐ → N

Round 1,702 to the nearest hundred ☐ → P

Round 21 to the nearest ten ☐ → A

Round 2,874 to the nearest hundred ☐ → E

Scratch space:

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

> The team evenly divided the collected trail markers among the search groups to map the escape route. Solve the division problem to reveal 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:

108 ÷ 9 = ☐	9 ÷ 1 = ☐	5 ÷ 1 = ☐	27 ÷ 9 = ☐	88 ÷ 11 = ☐
6 ÷ 3 = ☐	11 ÷ 1 = ☐	42 ÷ 6 = ☐	60 ÷ 6 = ☐	9 ÷ 9 = ☐
24 ÷ 6 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain glided down on a paraglider, then fired a signal flare.
2. The villain dropped a smoke bomb, then snacked on an energy bar.
3. The villain dropped a smoke bomb, then dropped a decoy map.
4. The villain swung in with a grappling hook, then donned a camouflage cloak.
5. The villain glided down on a paraglider, then dropped a decoy map.
6. The villain glided down on a paraglider, then sipped from a water canteen.
7. The villain flashed a bright torch beam, then fired a signal flare.
8. The villain checked a pocket compass, then sipped from a water canteen.
9. The villain checked a pocket compass, then dropped a decoy map.
10. The villain swung in with a grappling hook, then snacked on an energy bar.
11. The villain flashed a bright torch beam, then sipped from a water canteen.
12. The villain flashed a bright torch beam, then dropped a decoy map.

TEACHER / PARENT

Answer Key

The Case of the Sunstone Thief

Culprit: Ivy Wilder

Paraglider · Water Canteen · Left Handed · Curly Crop · Bright Flashlight

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE A CAMOUFLAGE CLOAK"

12 × 5 = 60 (T) · 1 × 8 = 8 (D) · 4 × 11 = 44 (F) · 10 × 10 = 100 (C) · 10 × 9 = 90 (U) · 4 × 8 = 32 (O) · 1 × 12 = 12 (S) · 7 × 1 = 7 (H) · 12 × 12 = 144 (M) · 3 × 9 = 27 (E) · 10 × 11 = 110 (G) · 3 × 7 = 21 (L) · 6 × 1 = 6 (K) · 11 × 3 = 33 (N) · 8 × 12 = 96 (A) · 12 × 6 = 72 (I) · 5 × 3 = 15 (V)

Clue 2 (Fractions of a number): "WITNESS SAW LEFT HANDED GRIP ON ROPE"

3/6 of 44 = 22 (W) · 1/5 of 85 = 17 (L) · 1/10 of 40 = 4 (A) · 9/10 of 10 = 9 (F) · 2/8 of 48 = 12 (T) · 3/4 of 8 = 6 (E) · 2/8 of 8 = 2 (N) · 1/3 of 45 = 15 (R) · 2/4 of 36 = 18 (S) · 1/6 of 138 = 23 (I) · 1/8 of 152 = 19 (D) · 1/4 of 20 = 5 (O) · 1/5 of 190 = 38 (P) · 2/8 of 28 = 7 (G) · 2/8 of 132 = 33 (H)

Clue 3 (Order of operations): "FLED WHEN A BRIGHT FLASHLIGHT SHONE"

36 + 3 × 3 = 45 (F) · 7 × 12 - 22 = 62 (W) · 4 × 10 - 2 = 38 (O) · 26 + 6 × 8 = 74 (E) · 9 + 2 × 3 = 15 (L) · 15 + 7 × 9 = 78 (S) · 53 + 4 × 4 = 69 (R) · 21 + 4 × 9 = 57 (H) · 4 + 7 × 5 = 39 (N) · 9 × 9 - 28 = 53 (G) · 7 × 4 - 22 = 6 (B) · 8 + 4 × 2 = 16 (T) · 4 + 2 × 7 = 18 (D) · 2 + 2 × 5 = 12 (A) · 7 × 9 - 3 = 60 (I)

Clue 4 (Rounding): "CURLY CROP STRANDS FOUND NEAR VAULT"

Round 941 to the nearest hundred = 900 (C) · Round 2,317 to the nearest hundred = 2300 (D) · Round 3,694 to the nearest hundred = 3700 (L) · Round 2,558 to the nearest thousand = 3000 (S) · Round 289 to the nearest ten = 290 (V) · Round 4,668 to the nearest thousand = 5000 (Y) · Round 229 to the nearest hundred = 200 (O) · Round 69 to the nearest ten = 70 (U) · Round 347 to the nearest hundred = 300 (R) · Round 27 to the nearest ten = 30 (T) · Round 371 to the nearest ten = 370 (F) · Round 230 to the nearest ten = 230 (N) · Round 1,702 to the nearest hundred = 1700 (P) · Round 21 to the nearest ten = 20 (A) · Round 2,874 to the nearest hundred = 2900 (E)

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

108 ÷ 9 = 12 · 9 ÷ 1 = 9 · 5 ÷ 1 = 5 · 27 ÷ 9 = 3 · 88 ÷ 11 = 8 · 6 ÷ 3 = 2 · 11 ÷ 1 = 11 · 42 ÷ 6 = 7 · 60 ÷ 6 = 10 · 9 ÷ 9 = 1 · 24 ÷ 6 = 4