The Secret of Sunken Temple

Grade 4 math · Multiplication, Skip counting, Rounding, Addition, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Someone snuck into the Expedition Basecamp and snatched the Golden Sun Compass! Examine the evidence and solve the math clues to identify the suspect.

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 Shadow Explorer is _____

Possible suspects

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

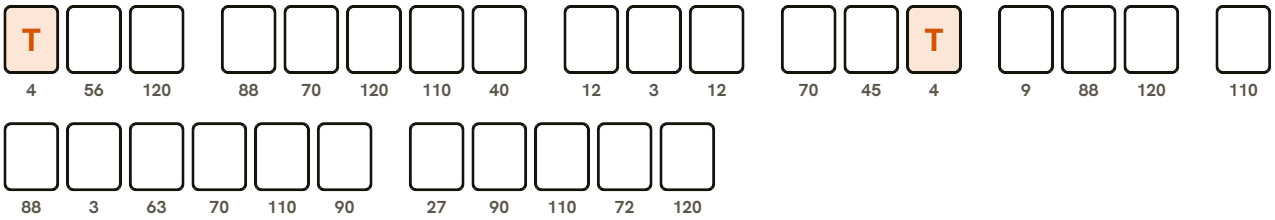
NAME	PRIMARY TOOL	SPECIAL GEAR	CARRYING STYLE	BANDANA COLOR	FEARED CREATURE
Charles Darwin	Compass Rose	Climbing Boots	Right Handed	Green Bandana	Cave Spiders
Edmund Hillary	Machete Blade	Signal Flare	Left Handed	Green Bandana	Golden Bats
Nellie Bly	Brass Scope	Leather Satchel	Left Handed	Red Bandana	Golden Bats
Percy Fawcett	Torch Lantern	Heavy Canteen	Left Handed	Blue Bandana	Golden Bats
Sylvia Earle	Grappling Hook	Rope Ladder	Left Handed	Red Bandana	Golden Bats
Freya Stark	Torch Lantern	Heavy Canteen	Right Handed	Blue Bandana	Golden Bats
Ranulph Fiennes	Torch Lantern	Heavy Canteen	Right Handed	Green Bandana	Mud Leeches
Mary Kingsley	Grappling Hook	Signal Flare	Right Handed	Blue Bandana	Mud Leeches
Ernest Shackleton	Torch Lantern	Signal Flare	Left Handed	Red Bandana	Golden Bats
Nathan Drake	Grappling Hook	Leather Satchel	Left Handed	Blue Bandana	Golden Bats
Sacagawea	Torch Lantern	Leather Satchel	Left Handed	Blue Bandana	Cave Spiders
Gertrude Bell	Compass Rose	Rope Ladder	Left Handed	Red Bandana	Mud Leeches
Ibn Battuta	Compass Rose	Leather Satchel	Left Handed	Blue Bandana	Golden Bats
Amelia Earhart	Grappling Hook	Leather Satchel	Right Handed	Green Bandana	Cave Spiders
Harriet Chalmers	Compass Rose	Climbing Boots	Right Handed	Green Bandana	Mud Leeches
Jacques Cousteau	Brass Scope	Heavy Canteen	Right Handed	Green Bandana	Cave Spiders
Roy Chapman	Torch Lantern	Leather Satchel	Left Handed	Red Bandana	Golden Bats
Indiana Jones	Machete Blade	Rope Ladder	Left Handed	Green Bandana	Mud Leeches
Hiram Bingham	Grappling Hook	Heavy Canteen	Right Handed	Blue Bandana	Cave Spiders
Lara Croft	Grappling Hook	Heavy Canteen	Left Handed	Red Bandana	Golden Bats
Marco Polo	Machete Blade	Climbing Boots	Right Handed	Red Bandana	Golden Bats

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CLUE 1 Multiplication facts (1-12)

> The team found crates of supplies stacked in equal rows near the temple gate. Calculate the total supplies to reveal the first clue.

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



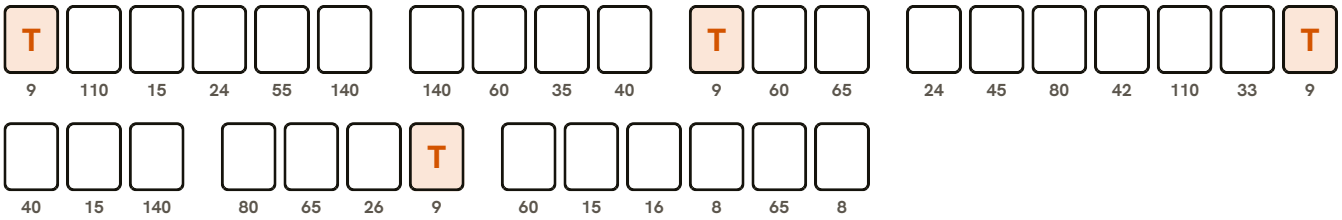
1 × 4 = ☐ → T	9 × 5 = ☐ → O	1 × 12 = ☐ → D
10 × 11 = ☐ → A	3 × 9 = ☐ → F	4 × 10 = ☐ → K
3 × 1 = ☐ → I	9 × 8 = ☐ → R	7 × 9 = ☐ → G	8 × 11 = ☐ → S
10 × 7 = ☐ → N	7 × 8 = ☐ → H	9 × 10 = ☐ → L
12 × 10 = ☐ → E	1 × 9 = ☐ → U	

Scratch space:

CLUE 2 Skip counting

> Mystic stepping stones cross the swamp in a repeating number pattern. Follow the pattern to unlock the next clue.

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



Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 ☐ → **C**

Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 ☐ → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → **R**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 ☐ → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 ☐ → **P**

Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 ☐ → **W**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 ☐ → **K**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 ☐ → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 ☐ → **I**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 ☐ → **F**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 ☐ → **O**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 ☐ → **L**

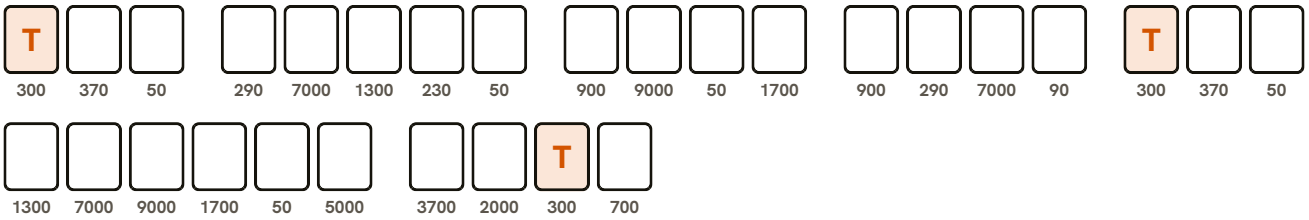
Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 ☐ → **U**

Scratch space:

CLUE 3 Rounding

> An ancient temple door mechanism only registers whole thousands on its weight dial. Round the measurement to open the latch.

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



Round 323 to the nearest hundred ☐ → **T**

Round 8,520 to the nearest thousand ☐ → **L**

Round 367 to the nearest ten ☐ → **H**

Round 52 to the nearest ten ☐ → **E**

Round 903 to the nearest hundred ☐ → **F**

Round 1,261 to the nearest hundred ☐ → **G**

Round 6,910 to the nearest thousand ☐ → **O**

Round 732 to the nearest hundred ☐ → **S**

Round 294 to the nearest ten ☐ → **R**

Round 233 to the nearest ten ☐ → **U**

Round 94 to the nearest ten ☐ → **M**

Round 1,673 to the nearest hundred ☐ → **D**

Round 5,439 to the nearest thousand ☐ → **N**

Round 1,986 to the nearest thousand ☐ → **A**

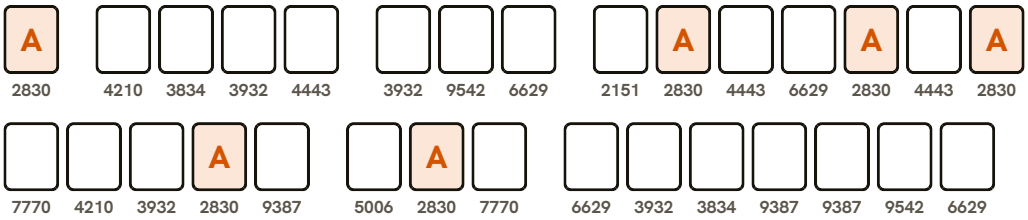
Round 3,680 to the nearest hundred ☐ → **B**

Scratch space:

CLUE 4 Addition

> The camp logbook shows rations gathered over several days. Add the daily totals together to find where the thief went.

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



1687 + 1143 = ☐ → **A**

5246 + 2524 = ☐ → **S**

1338 + 3105 = ☐ → **N**

5965 + 3422 = ☐ → **P**

1379 + 2553 = ☐ → **R**

5252 + 4290 = ☐ → **E**

1325 + 826 = ☐ → **B**

2477 + 1733 = ☐ → **T**

1525 + 2309 = ☐ → **O**

1728 + 3278 = ☐ → **W**

3464 + 3165 = ☐ → **D**

Scratch space:

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

> The explorers must split the remaining energy crystals equally among their packs. Solve the division to uncover the final trace.

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:

14 ÷ 7 = ☐	121 ÷ 11 = ☐	72 ÷ 12 = ☐	21 ÷ 3 = ☐	84 ÷ 7 = ☐
27 ÷ 9 = ☐	8 ÷ 8 = ☐	36 ÷ 9 = ☐	10 ÷ 2 = ☐	80 ÷ 8 = ☐
108 ÷ 12 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain spied the hidden doorway with a brass scope, then unrolled a rope ladder.
2. The villain lit up the ancient hallway with a torch lantern, then packed a leather satchel.
3. The villain lit up the ancient hallway with a torch lantern, then laced up climbing boots.
4. The villain cleared thick jungle vines with a machete blade, then laced up climbing boots.
5. The villain cleared thick jungle vines with a machete blade, then packed a leather satchel.
6. The villain swung across the canyon with a grappling hook, then unrolled a rope ladder.
7. The villain navigated the maze with a compass rose, then lit a signal flare.
8. The villain swung across the canyon with a grappling hook, then drank from a heavy canteen.
9. The villain spied the hidden doorway with a brass scope, then drank from a heavy canteen.
10. The villain navigated the maze with a compass rose, then packed a leather satchel.
11. The villain spied the hidden doorway with a brass scope, then packed a leather satchel.
12. The villain swung across the canyon with a grappling hook, then packed a leather satchel.

TEACHER / PARENT

Answer Key

The Secret of Sunken Temple

Culprit: Lara Croft

Grappling Hook · Heavy Canteen · Left Handed · Red Bandana · Golden Bats

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAK DID NOT USE A SIGNAL FLARE"

1 × 4 = 4 (T) · 9 × 5 = 45 (O) · 1 × 12 = 12 (D) · 10 × 11 = 110 (A) · 3 × 9 = 27 (F) · 4 × 10 = 40 (K) · 3 × 1 = 3 (I) · 9 × 8 = 72 (R) · 7 × 9 = 63 (G) · 8 × 11 = 88 (S) · 10 × 7 = 70 (N) · 7 × 8 = 56 (H) · 9 × 10 = 90 (L) · 12 × 10 = 120 (E) · 1 × 9 = 9 (U)

Clue 2 (Skip counting): "TRACKS SHOW THE CULPRIT WAS LEFT HANDED"

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 = 24 (C) · Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 = 15 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 = 40 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (K) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 = 60 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (U)

Clue 3 (Rounding): "THE ROGUE FLED FROM THE GOLDEN BATS"

Round 323 to the nearest hundred = 300 (T) · Round 8,520 to the nearest thousand = 9000 (L) · Round 367 to the nearest ten = 370 (H) · Round 52 to the nearest ten = 50 (E) · Round 903 to the nearest hundred = 900 (F) · Round 1,261 to the nearest hundred = 1300 (G) · Round 6,910 to the nearest thousand = 7000 (O) · Round 732 to the nearest hundred = 700 (S) · Round 294 to the nearest ten = 290 (R) · Round 233 to the nearest ten = 230 (U) · Round 94 to the nearest ten = 90 (M) · Round 1,673 to the nearest hundred = 1700 (D) · Round 5,439 to the nearest thousand = 5000 (N) · Round 1,986 to the nearest thousand = 2000 (A) · Round 3,680 to the nearest hundred = 3700 (B)

Clue 4 (Addition): "A TORN RED BANDANA STRAP WAS DROPPED"

1687 + 1143 = 2830 (A) · 5246 + 2524 = 7770 (S) · 1338 + 3105 = 4443 (N) · 5965 + 3422 = 9387 (P) · 1379 + 2553 = 3932 (R) · 5252 + 4290 = 9542 (E) · 1325 + 826 = 2151 (B) · 2477 + 1733 = 4210 (T) · 1525 + 2309 = 3834 (O) · 1728 + 3278 = 5006 (W) · 3464 + 3165 = 6629 (D)

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

14 ÷ 7 = 2 · 121 ÷ 11 = 11 · 72 ÷ 12 = 6 · 21 ÷ 3 = 7 · 84 ÷ 7 = 12 · 27 ÷ 9 = 3 · 8 ÷ 8 = 1 · 36 ÷ 9 = 4 · 10 ÷ 2 = 5 · 80 ÷ 8 = 10 · 108 ÷ 12 = 9