



The Lost Sapphire of Temple Peak

Grade 8 math · Addition, Multiplication, Rounding, Word problems, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

During a midnight storm, someone broke into the Sunken Citadel vault and snatched the ancient Star Sapphire. Detective, review the field reports from the expedition camp to unmask the culprit!

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	EXPLORATION TOOL	ARTIFACT STOLEN	DOMINANT HAND	HEADWEAR	PHOBIA
Scholar Ezra	Bronze Compass	Crystal Skull	Left Handed	Feathered Band	Spiders
Guide Iris	Signal Flare	Golden Idol	Right Handed	Feathered Band	Spiders
Ranger Blake	Signal Flare	Ruby Crown	Right Handed	Leather Cap	Spiders
Tracker Hayes	Grappling Hook	Ruby Crown	Right Handed	Feathered Band	Darkness
Recruit Skye	Signal Flare	Golden Idol	Right Handed	Feathered Band	Darkness
Agent Paige	Signal Flare	Crystal Skull	Left Handed	Feathered Band	Darkness
Navigator Tess	Signal Flare	Crystal Skull	Right Handed	Pith Helmet	Darkness
Scout Maya	Bronze Compass	Crystal Skull	Left Handed	Pith Helmet	Heights
Diver Kane	Grappling Hook	Crystal Skull	Right Handed	Feathered Band	Darkness
Surveyor Lark	Decoder Ring	Jade Tablet	Right Handed	Feathered Band	Darkness
Cadet Rowan	Decoder Ring	Golden Idol	Left Handed	Pith Helmet	Heights
Archivist Cole	Bronze Compass	Ruby Crown	Right Handed	Feathered Band	Heights
Curator Fenn	Signal Flare	Golden Idol	Right Handed	Leather Cap	Darkness
Professor Sterling	Signal Flare	Jade Tablet	Right Handed	Leather Cap	Darkness
Expert Quinn	Climbing Pick	Silver Chalice	Right Handed	Feathered Band	Spiders
Dr Aris Thorne	Bronze Compass	Silver Chalice	Right Handed	Pith Helmet	Darkness
Cartographer Milo	Grappling Hook	Silver Chalice	Right Handed	Feathered Band	Darkness
Archaeologist Gemma	Grappling Hook	Silver Chalice	Right Handed	Feathered Band	Spiders
Captain Vance	Decoder Ring	Ruby Crown	Right Handed	Leather Cap	Heights
Specialist Bram	Signal Flare	Jade Tablet	Left Handed	Pith Helmet	Heights
Officer Flint	Signal Flare	Silver Chalice	Right Handed	Feathered Band	Darkness

CLUE 1 Addition

To tally the total supplies gathered by camp guards before the theft, add up these inventory counts.

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

T									T							T
7217	5663	4620	2330	7051	3656	9276	9244	7591	7217	4621	7591	4621	8881	4694	7217	

	T																
9407	7217	4620	6264	3656	9407	7591	3656	9288	4620	9244	2330	5663	6264	3656	7591	2330	4620

$2793 + 4424 = \square \rightarrow \text{T}$

$1406 + 924 = \square \rightarrow \text{C}$

$2883 + 4708 = \square \rightarrow \text{I}$

$6274 + 2970 = \square \rightarrow \text{R}$

$2479 + 2215 = \square \rightarrow \text{O}$

$1717 + 2904 = \square \rightarrow \text{D}$

$4580 + 2471 = \square \rightarrow \text{U}$

$2391 + 1265 = \square \rightarrow \text{L}$

$2024 + 2596 = \square \rightarrow \text{E}$

$2664 + 2999 = \square \rightarrow \text{H}$

$5167 + 4121 = \square \rightarrow \text{V}$

$2977 + 5904 = \square \rightarrow \text{N}$

$3774 + 5502 = \square \rightarrow \text{P}$

$4388 + 5019 = \square \rightarrow \text{S}$

$3177 + 3087 = \square \rightarrow \text{A}$

Scratch space:

CLUE 2

Multiplication facts (1-12)

The guard commander organized field patrols into equal grid sectors. Calculate the total area searched.

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

T									T									
11	21	99	33	35	33	20	99	45	11	42	55	66	20	20	99	42	5	
				T										T			T	
55	84	54	21	11	21	5	132	42	99	42	54	5	35	132	11	144	99	11

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

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

$12 \times 11 = \square \rightarrow \text{N}$

$11 \times 3 = \square \rightarrow \text{S}$

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

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

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

$9 \times 11 = \square \rightarrow \text{E}$

$9 \times 6 = \square \rightarrow \text{G}$

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

$5 \times 1 = \square \rightarrow \text{A}$

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

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

$5 \times 7 = \square \rightarrow \text{U}$

$6 \times 11 = \square \rightarrow \text{O}$

Scratch space:

CLUE 3

Rounding

The ancient expedition sonar scanner only displays signal readings rounded to the nearest thousand.

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

The diagram shows two rows of boxes, each representing a number. The top row has 18 boxes, and the bottom row has 12 boxes. Some boxes are highlighted in orange and labeled 'T'.

Top row (left to right):

- Box 1: Orange, labeled 'T' (110)
- Box 2: White (300)
- Box 3: White (30)
- Box 4: White (70)
- Box 5: White (1700)
- Box 6: White (30)
- Box 7: White (4300)
- Box 8: White (200)
- Box 9: White (90)
- Box 10: White (9000)
- Box 11: White (30)
- Box 12: White (4300)
- Box 13: White (200)
- Box 14: White (30)
- Box 15: White (20)
- Box 16: White (3000)
- Box 17: White (170)
- Box 18: Orange, labeled 'T' (110)

Bottom row (left to right):

- Box 1: White (1300)
- Box 2: White (1700)
- Box 3: Orange, labeled 'T' (110)
- Box 4: White (300)
- Box 5: White (30)
- Box 6: White (20)
- Box 7: White (4300)
- Box 8: White (9000)
- Box 9: White (200)
- Box 10: White (230)
- Box 11: White (4300)
- Box 12: White (50)
- Box 13: White (30)

Round 113 to the nearest ten → T	Round 235 to the nearest hundred → K
Round 282 to the nearest hundred → H	Round 4,340 to the nearest hundred → A
Round 46 to the nearest ten → V	Round 1,291 to the nearest hundred → I
Round 32 to the nearest ten → E	Round 9,076 to the nearest thousand → R
Round 228 to the nearest ten → C	Round 2,658 to the nearest thousand → O
Round 20 to the nearest ten → D	Round 172 to the nearest ten → U
Round 67 to the nearest ten → S	Round 1,666 to the nearest hundred → N
Round 90 to the nearest ten → F	

Scratch space:

CLUE 4 Word problems

Camp logs describe supply shipments moving between field bases. Solve the problem to reveal a secret clue.

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

A strand of

F								
76	108	61	9	64	108	23	108	34

B		N	
61		34	

 hair turned up at the scene.

There were 106 canteen flasks. 30 were used up. How many canteen flasks are left?

Answer: → **F**

Expedition ranger lined up 8 rows of 8 expedition packs.
How many expedition packs in all?

Answer: → **H**

There were 40 climbing ropes. 17 were used up. How many climbing ropes are left?

Answer: → **R**

Expedition ranger found 4 map scrolls yesterday and 30 more today. How many map scrolls in all?

Answer: → **D**

Expedition ranger lined up 12 rows of 9 expedition packs.
How many expedition packs in all?

Answer: → **E**

Expedition ranger lined up 3 rows of 3 expedition packs.
How many expedition packs in all?

Answer: → **T**

Expedition ranger found 28 torch batteries yesterday and 33 more today. How many torch batteries in all?

Answer: → **A**

Scratch space:

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

The rescue team divided emergency rations equally among the remaining search teams.

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:

$12 \div 3 = \boxed{}$

$14 \div 2 = \boxed{}$

$120 \div 12 = \boxed{}$

$64 \div 8 = \boxed{}$

$36 \div 12 = \boxed{}$

$96 \div 8 = \boxed{}$

$22 \div 11 = \boxed{}$

$35 \div 7 = \boxed{}$

$5 \div 5 = \boxed{}$

$6 \div 1 = \boxed{}$

$33 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scaled the temple wall with a climbing pick, then snatched the golden idol.
2. The villain scaled the temple wall with a climbing pick, then lifted the ruby crown.
3. The villain navigated the maze with a bronze compass, then lifted the ruby crown.
4. The villain swung across the chasm with a grappling hook, then lifted the ruby crown.
5. The villain lit the cavern with a bright signal flare, then pocketed the jade tablet.
6. The villain scaled the temple wall with a climbing pick, then grabbed the silver chalice.
7. The villain unlocked the vault with a decoder ring, then pocketed the jade tablet.
8. The villain swung across the chasm with a grappling hook, then pocketed the jade tablet.
9. The villain swung across the chasm with a grappling hook, then swiped the crystal skull.
10. The villain lit the cavern with a bright signal flare, then snatched the golden idol.
11. The villain unlocked the vault with a decoder ring, then grabbed the silver chalice.
12. The villain lit the cavern with a bright signal flare, then lifted the ruby crown.

Answer Key

The Lost Sapphire of Temple Peak

Culprit: Diver Kane

Grappling Hook · Crystal Skull · Right Handed · Feathered Band · Darkness

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE CULPRIT DID NOT STEAL SILVER CHALICE"

$2793 + 4424 = 7217$ (T) · $1406 + 924 = 2330$ (C) · $2883 + 4708 = 7591$ (I) · $6274 + 2970 = 9244$ (R) · $2479 + 2215 = 4694$ (O) · $1717 + 2904 = 4621$ (D) · $4580 + 2471 = 7051$ (U) · $2391 + 1265 = 3656$ (L) · $2024 + 2596 = 4620$ (E) · $2664 + 2999 = 5663$ (H) · $5167 + 4121 = 9288$ (V) · $2977 + 5904 = 8881$ (N) · $3774 + 5502 = 9276$ (P) · $4388 + 5019 = 9407$ (S) · $3177 + 3087 = 6264$ (A)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT DROPPED A RIGHT HANDED GAUNTLET"

$1 \times 11 = 11$ (T) · $5 \times 4 = 20$ (P) · $12 \times 11 = 132$ (N) · $11 \times 3 = 33$ (S) · $5 \times 11 = 55$ (R) · $12 \times 12 = 144$ (L) · $7 \times 6 = 42$ (D) · $9 \times 11 = 99$ (E) · $9 \times 6 = 54$ (G) · $5 \times 9 = 45$ (C) · $5 \times 1 = 5$ (A) · $7 \times 12 = 84$ (I) · $7 \times 3 = 21$ (H) · $5 \times 7 = 35$ (U) · $6 \times 11 = 66$ (O)

Clue 3 (Rounding): "THE SNEAK FREAKED OUT IN THE DARK CAVE"

Round 113 to the nearest ten = 110 (T) · Round 235 to the nearest hundred = 200 (K) · Round 282 to the nearest hundred = 300 (H) · Round 4,340 to the nearest hundred = 4300 (A) · Round 46 to the nearest ten = 50 (V) · Round 1,291 to the nearest hundred = 1300 (I) · Round 32 to the nearest ten = 30 (E) · Round 9,076 to the nearest thousand = 9000 (R) · Round 228 to the nearest ten = 230 (C) · Round 2,658 to the nearest thousand = 3000 (O) · Round 20 to the nearest ten = 20 (D) · Round 172 to the nearest ten = 170 (U) · Round 67 to the nearest ten = 70 (S) · Round 1,666 to the nearest hundred = 1700 (N) · Round 90 to the nearest ten = 90 (F)

Clue 4 (Word problems): "FEATHERED BAND"

There were 106 canteen flasks. 30 were used up. How many canteen flasks are left? = 76 (F) · Expedition ranger lined up 8 rows of 8 expedition packs. How many expedition packs in all? = 64 (H) · There were 40 climbing ropes. 17 were used up. How many climbing ropes are left? = 23 (R) · Expedition ranger found 4 map scrolls yesterday and 30 more today. How many map scrolls in all? = 34 (D) · Expedition ranger lined up 12 rows of 9 expedition packs. How many expedition packs in all? = 108 (E) · Expedition ranger lined up 3 rows of 3 expedition packs. How many expedition packs in all? = 9 (T) · Expedition ranger found 28 torch batteries yesterday and 33 more today. How many torch batteries in all? = 61 (A)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Diver Kane

$12 \div 3 = 4$ · $14 \div 2 = 7$ · $120 \div 12 = 10$ · $64 \div 8 = 8$ · $36 \div 12 = 3$ · $96 \div 8 = 12$ · $22 \div 11 = 2$ · $35 \div 7 = 5$ · $5 \div 5 = 1$ · $6 \div 1 = 6$ · $33 \div 3 = 11$