The Great Camp Trophy Mystery

Grade 4 math · Addition, Rounding, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into the main lodge during campfire time and snatched the Golden Compass Trophy! Work through the clues to track down the thief.

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 Trophy Thief is _____

Possible suspects

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

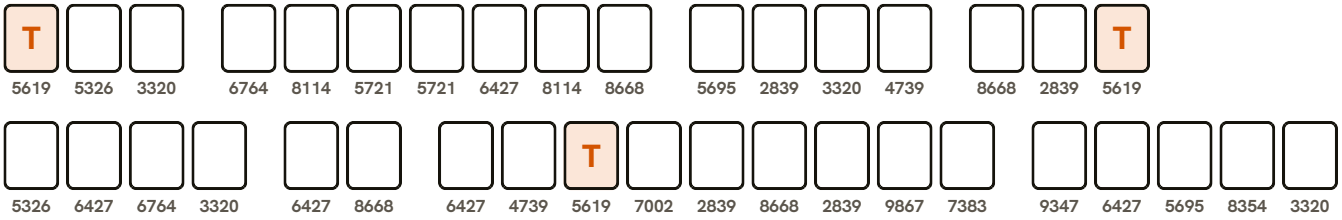
NAME	CAMP SKILL	BADGE	WATCH WRIST	BANDANA COLOR	DISTRACTION
Avery Forest	Shelter Building	First Aid Badge	Right Wrist	Green Bandana	Whistle Sound
Alex River	Fire Making	Archery Badge	Left Wrist	Blue Bandana	Whistle Sound
Quinn Hiker	Trail Blazing	Cooking Badge	Left Wrist	Red Bandana	Whistle Sound
Rowan Fern	Shelter Building	Canoeing Badge	Left Wrist	Red Bandana	Bug Spray Mist
Skyler Camp	Trail Blazing	Archery Badge	Right Wrist	Red Bandana	Whistle Sound
Morgan Lake	Trail Blazing	Cooking Badge	Right Wrist	Green Bandana	Whistle Sound
Riley Birch	Fire Making	Canoeing Badge	Left Wrist	Blue Bandana	Smores Craving
Kai Valley	Shelter Building	Archery Badge	Right Wrist	Red Bandana	Whistle Sound
Emerson Woods	Knot Tying	Astronomy Badge	Right Wrist	Blue Bandana	Whistle Sound
Ellis Prairie	Trail Blazing	First Aid Badge	Left Wrist	Red Bandana	Whistle Sound
Dallas Grove	Shelter Building	First Aid Badge	Right Wrist	Blue Bandana	Smores Craving
Peyton Stream	Fire Making	First Aid Badge	Left Wrist	Red Bandana	Bug Spray Mist
Finley Glen	Trail Blazing	Canoeing Badge	Left Wrist	Red Bandana	Whistle Sound
Casey Ridge	Fire Making	First Aid Badge	Left Wrist	Blue Bandana	Whistle Sound
River Stone	Knot Tying	Cooking Badge	Left Wrist	Red Bandana	Smores Craving
Sammy Scout	Map Reading	Cooking Badge	Left Wrist	Red Bandana	Whistle Sound
Hayden Marsh	Knot Tying	First Aid Badge	Right Wrist	Blue Bandana	Bug Spray Mist
Parker Cliff	Knot Tying	Astronomy Badge	Left Wrist	Red Bandana	Whistle Sound
Taylor Pine	Fire Making	Canoeing Badge	Left Wrist	Red Bandana	Bug Spray Mist
Reese Camp	Knot Tying	Astronomy Badge	Left Wrist	Green Bandana	Smores Craving
Sawyer Peak	Map Reading	Archery Badge	Right Wrist	Green Bandana	Whistle Sound

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CLUE 1 Addition

Counselor Sam tallied up all the extra snacks packed by the cabins.

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



2241 + 3378 = ☐ → T

2565 + 3156 = ☐ → L

3557 + 3826 = ☐ → Y

2248 + 4516 = ☐ → V

4077 + 4591 = ☐ → N

4821 + 3533 = ☐ → G

1815 + 1024 = ☐ → O

3128 + 2567 = ☐ → D

4374 + 3740 = ☐ → I

2164 + 3162 = ☐ → H

4713 + 5154 = ☐ → M

2115 + 1205 = ☐ → E

4072 + 5275 = ☐ → B

2218 + 2521 = ☐ → S

4006 + 2996 = ☐ → R

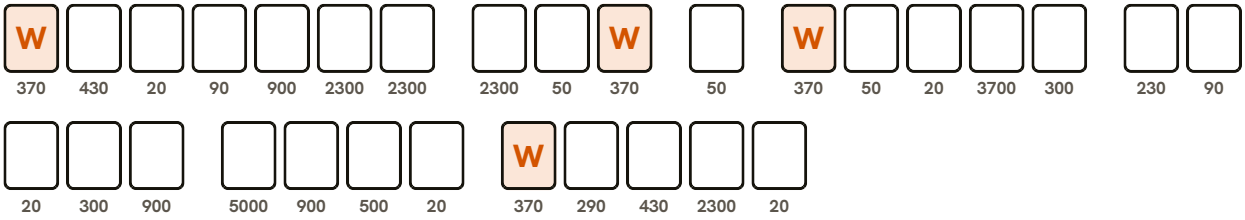
3633 + 2794 = ☐ → A

Scratch space:

CLUE 2 Rounding

The digital trail monitor only displays rounded distance numbers.

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



Round 368 to the nearest ten ☐ → W

Round 431 to the nearest ten ☐ → I

Round 291 to the nearest hundred ☐ → H

Round 486 to the nearest hundred ☐ → F

Round 50 to the nearest ten ☐ → A

Round 86 to the nearest ten ☐ → N

Round 227 to the nearest ten ☐ → O

Round 5,279 to the nearest thousand ☐ → L

Round 896 to the nearest hundred ☐ → E

Round 288 to the nearest ten ☐ → R

Round 17 to the nearest ten ☐ → T

Round 2,262 to the nearest hundred ☐ → S

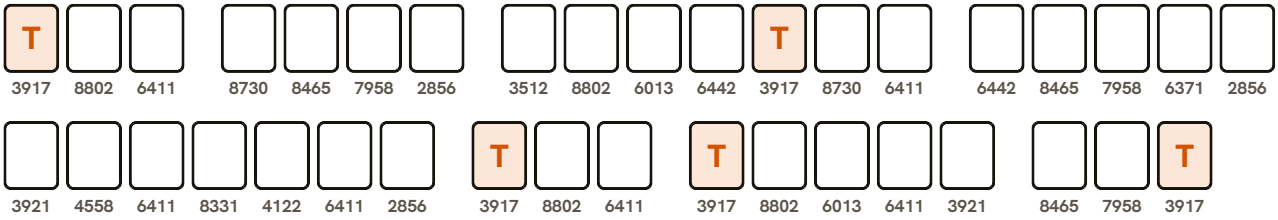
Round 3,681 to the nearest hundred ☐ → C

Scratch space:

CLUE 3 Subtraction

> The camp inventory showed some missing supplies after the raid.

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



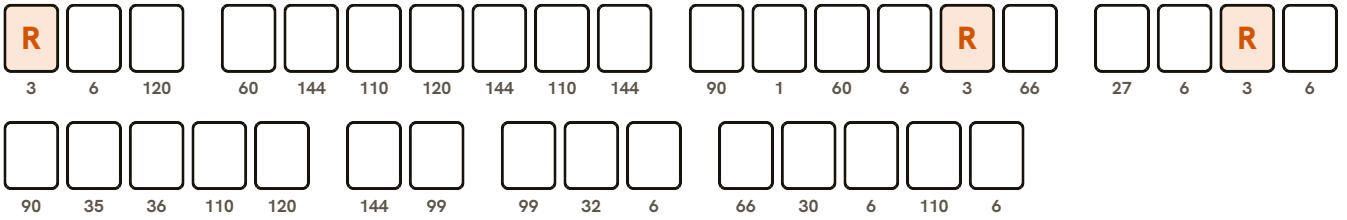
3947 - 30 = ☐ → T	9662 - 3251 = ☐ → E	12625 - 3895 = ☐ → L
9258 - 456 = ☐ → H	6783 - 2225 = ☐ → R	5831 - 1709 = ☐ → K
9232 - 901 = ☐ → A	11842 - 3884 = ☐ → U	4028 - 1172 = ☐ → D
4378 - 866 = ☐ → W	4964 - 1043 = ☐ → F	9342 - 877 = ☐ → O
6286 - 273 = ☐ → I	10409 - 3967 = ☐ → S	10917 - 4546 = ☐ → N

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The campers arranged their tents in neat equal rows for inspection.

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



3 × 1 = ☐ → R	5 × 7 = ☐ → O	6 × 6 = ☐ → U	3 × 9 = ☐ → W
12 × 12 = ☐ → A	12 × 10 = ☐ → D	8 × 4 = ☐ → H	
6 × 1 = ☐ → E	10 × 11 = ☐ → N	11 × 9 = ☐ → T	
10 × 9 = ☐ → F	10 × 3 = ☐ → C	1 × 1 = ☐ → I	
5 × 12 = ☐ → B	6 × 11 = ☐ → S		

Scratch space:

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

> The reward points were split equally among the camper squads.

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:

54 ÷ 9 = ☐ | 24 ÷ 6 = ☐ | 22 ÷ 11 = ☐ | 33 ÷ 3 = ☐ | 60 ÷ 6 = ☐

27 ÷ 9 = ☐ | 80 ÷ 10 = ☐ | 12 ÷ 1 = ☐ | 49 ÷ 7 = ☐ | 60 ÷ 12 = ☐

11 ÷ 11 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain used shelter building to block the hallway, then showed off their archery badge.
2. The villain used trail blazing to mark an escape path, then showed off their first aid badge.
3. The villain used trail blazing to mark an escape path, then showed off their archery badge.
4. The villain used map reading to find the shortcut, then showed off their cooking badge.
5. The villain used map reading to find the shortcut, then showed off their canoeing badge.
6. The villain used trail blazing to mark an escape path, then showed off their canoeing badge.
7. The villain used fire making to create a smoke screen, then showed off their first aid badge.
8. The villain used knot tying to tie up the trunk, then showed off their astronomy badge.
9. The villain used trail blazing to mark an escape path, then showed off their cooking badge.
10. The villain used fire making to create a smoke screen, then showed off their canoeing badge.
11. The villain used knot tying to tie up the trunk, then showed off their first aid badge.
12. The villain used fire making to create a smoke screen, then showed off their archery badge.

TEACHER / PARENT

Answer Key

The Great Camp Trophy Mystery

Culprit: Quinn Hiker

Trail Blazing · Cooking Badge · Left Wrist · Red Bandana · Whistle Sound

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE AN ASTRONOMY BADGE"

2241 + 3378 = 5619 (T) · 2565 + 3156 = 5721 (L) · 3557 + 3826 = 7383 (Y) · 2248 + 4516 = 6764 (V) · 4077 + 4591 = 8668 (N) · 4821 + 3533 = 8354 (G) · 1815 + 1024 = 2839 (O) · 3128 + 2567 = 5695 (D) · 4374 + 3740 = 8114 (I) · 2164 + 3162 = 5326 (H) · 4713 + 5154 = 9867 (M) · 2115 + 1205 = 3320 (E) · 4072 + 5275 = 9347 (B) · 2218 + 2521 = 4739 (S) · 4006 + 2996 = 7002 (R) · 3633 + 2794 = 6427 (A)

Clue 2 (Rounding): "WITNESS SAW A WATCH ON THE LEFT WRIST"

Round 368 to the nearest ten = 370 (W) · Round 431 to the nearest ten = 430 (I) · Round 291 to the nearest hundred = 300 (H) · Round 486 to the nearest hundred = 500 (F) · Round 50 to the nearest ten = 50 (A) · Round 86 to the nearest ten = 90 (N) · Round 227 to the nearest ten = 230 (O) · Round 5,279 to the nearest thousand = 5000 (L) · Round 896 to the nearest hundred = 900 (E) · Round 288 to the nearest ten = 290 (R) · Round 17 to the nearest ten = 20 (T) · Round 2,262 to the nearest hundred = 2300 (S) · Round 3,681 to the nearest hundred = 3700 (C)

Clue 3 (Subtraction): "THE LOUD WHISTLE SOUND FREAKED THE THIEF OUT"

3947 - 30 = 3917 (T) · 9662 - 3251 = 6411 (E) · 12625 - 3895 = 8730 (L) · 9258 - 456 = 8802 (H) · 6783 - 2225 = 4558 (R) · 5831 - 1709 = 4122 (K) · 9232 - 901 = 8331 (A) · 11842 - 3884 = 7958 (U) · 4028 - 1172 = 2856 (D) · 4378 - 866 = 3512 (W) · 4964 - 1043 = 3921 (F) · 9342 - 877 = 8465 (O) · 6286 - 273 = 6013 (I) · 10409 - 3967 = 6442 (S) · 10917 - 4546 = 6371 (N)

Clue 4 (Multiplication facts (1-12)): "RED BANDANA FIBERS WERE FOUND AT THE SCENE"

3 × 1 = 3 (R) · 5 × 7 = 35 (O) · 6 × 6 = 36 (U) · 3 × 9 = 27 (W) · 12 × 12 = 144 (A) · 12 × 10 = 120 (D) · 8 × 4 = 32 (H) · 6 × 1 = 6 (E) · 10 × 11 = 110 (N) · 11 × 9 = 99 (T) · 10 × 9 = 90 (F) · 10 × 3 = 30 (C) · 1 × 1 = 1 (I) · 5 × 12 = 60 (B) · 6 × 11 = 66 (S)

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

54 ÷ 9 = 6 · 24 ÷ 6 = 4 · 22 ÷ 11 = 2 · 33 ÷ 3 = 11 · 60 ÷ 6 = 10 · 27 ÷ 9 = 3 · 80 ÷ 10 = 8 · 12 ÷ 1 = 12 · 49 ÷ 7 = 7 · 60 ÷ 12 = 5 · 11 ÷ 11 = 1