The Camp Grizzly Valley Mystery

Grade 1 math · Subtraction, Addition, Place value, Multiplication, Missing addends · Reading level grades 1-2

Detective: _____ **Date:** _____

Welcome to Camp Grizzly Valley in sunny California! Someone took the Golden Camp Trophy. The sneaky camper left a trail of sports gear on the field. Detective Teddy, Miles, and Ada are on the case. They need your help to solve the mystery and find the trophy!

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 Sneaky Camper is _____

Possible suspects

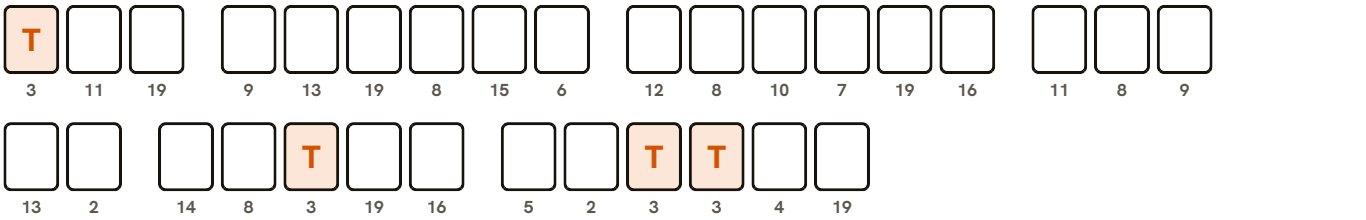
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	FAVORITE SPORT	CAMP GEAR	WRITING HAND	HAT COLOR	CAMP SNACK
Dak	soccer	clipboard	left-handed	blue cap	apple slices
Kobe	basketball	sweatband	left-handed	green cap	cheese stick
Tom	basketball	sweatband	right-handed	green cap	apple slices
Ada	go-kart racing	clipboard	left-handed	green cap	juice box
Giannis	soccer	whistle	left-handed	red cap	cheese stick
Mia	basketball	clipboard	right-handed	blue cap	cheese stick
LeBron	tennis	sweatband	right-handed	green cap	juice box
Tiger	basketball	clipboard	right-handed	blue cap	apple slices
Travis	go-kart racing	water bottle	left-handed	green cap	juice box
Patrick	basketball	water bottle	right-handed	green cap	apple slices
Simone	go-kart racing	stopwatch	right-handed	green cap	juice box
Serena	football	whistle	left-handed	red cap	apple slices
Shohei	tennis	sweatband	left-handed	green cap	juice box
Zion	tennis	stopwatch	left-handed	green cap	juice box
Caitlin	soccer	stopwatch	left-handed	green cap	juice box
Teddy	go-kart racing	clipboard	right-handed	blue cap	juice box
Stephen	go-kart racing	sweatband	left-handed	red cap	juice box
Miles	tennis	stopwatch	left-handed	blue cap	cheese stick
Lamar	tennis	stopwatch	right-handed	green cap	cheese stick
Coco	go-kart racing	whistle	left-handed	red cap	apple slices
Usain	soccer	stopwatch	right-handed	green cap	apple slices

CLUE 1 Subtraction

> Detective Teddy checks the gear shed. He starts with ten footballs but two are missing. We must subtract to find how many are left. This number opens a safe.

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



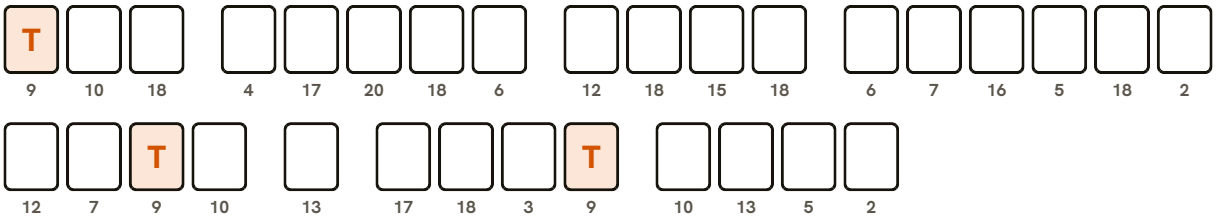
12 - 9 = ☐ → T	8 - 6 = ☐ → O	11 - 3 = ☐ → A	19 - 4 = ☐ → K
15 - 4 = ☐ → H	13 - 8 = ☐ → B	16 - 9 = ☐ → P	
12 - 2 = ☐ → M	7 - 1 = ☐ → Y	13 - 9 = ☐ → L	19 - 6 = ☐ → N
15 - 1 = ☐ → W	19 - 3 = ☐ → R	12 - 3 = ☐ → S	
16 - 4 = ☐ → C	20 - 1 = ☐ → E		

Scratch space:

CLUE 2 Addition

> Detective Miles looks at the basketball rack. He adds three red balls and four blue balls together. This big sum points us to a new clue on the court.

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



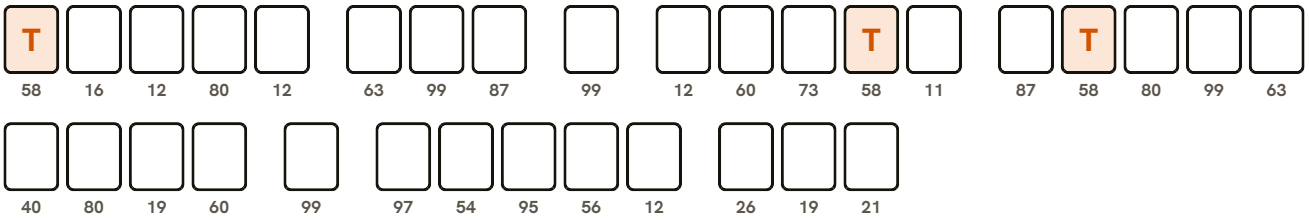
5 + 4 = ☐ → T	1 + 3 = ☐ → C	2 + 1 = ☐ → F	8 + 12 = ☐ → U
1 + 4 = ☐ → N	9 + 9 = ☐ → E	12 + 5 = ☐ → L	1 + 5 = ☐ → S
1 + 1 = ☐ → D	6 + 7 = ☐ → A	5 + 7 = ☐ → W	3 + 7 = ☐ → H
5 + 2 = ☐ → I	5 + 10 = ☐ → R	7 + 9 = ☐ → G	

Scratch space:

CLUE 3 Place value (tens & ones)

> Detective Ada looks at the giant camp scoreboard. The score has a five in the tens place and a two in the ones place. This special number unlocks a secret message.

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



What number has 5 tens and 8 ones? ☐ → **T**

What number has 2 tens and 6 ones? ☐ → **B**

What number has 8 tens and 7 ones? ☐ → **S**

What number has 5 tens and 6 ones? ☐ → **C**

What number has 8 tens and 0 ones? ☐ → **R**

What number has 2 tens and 1 one? ☐ → **X**

What number has 1 ten and 1 one? ☐ → **Y**

What number has 9 tens and 5 ones? ☐ → **I**

What number has 6 tens and 3 ones? ☐ → **W**

What number has 1 ten and 2 ones? ☐ → **E**

What number has 7 tens and 3 ones? ☐ → **P**

What number has 4 tens and 0 ones? ☐ → **F**

What number has 9 tens and 9 ones? ☐ → **A**

What number has 5 tens and 4 ones? ☐ → **U**

What number has 6 tens and 0 ones? ☐ → **M**

What number has 1 ten and 6 ones? ☐ → **H**

What number has 9 tens and 7 ones? ☐ → **J**

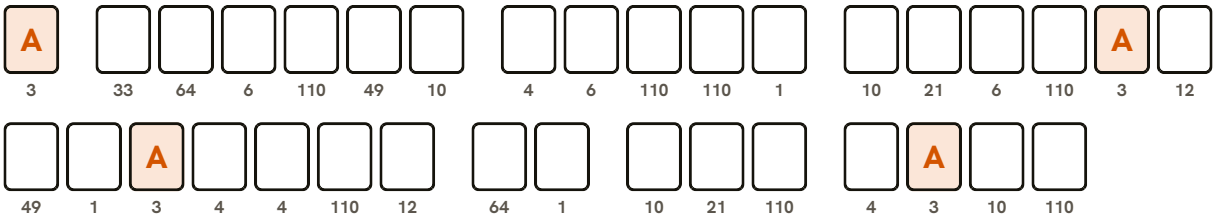
What number has 1 ten and 9 ones? ☐ → **O**

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Teddy counts the racing cones on the track. They are set up in three rows of four. We can multiply to find the total and read the next clue on the grass.

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



3 × 1 = ☐ → A	8 × 8 = ☐ → O	3 × 4 = ☐ → D	7 × 7 = ☐ → S
1 × 1 = ☐ → N	4 × 1 = ☐ → G	3 × 11 = ☐ → F	2 × 3 = ☐ → R
3 × 7 = ☐ → H	10 × 11 = ☐ → E	2 × 5 = ☐ → T	

Scratch space:

CLUE 5 Missing addends - the last clue

> Miles has six juice boxes in total. He only sees four juice boxes on the picnic table. How many juice boxes are missing? Finding the missing part gives us 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:

2 + ___ = 11 ☐	6 + ___ = 11 ☐	6 + ___ = 7 ☐	4 + ___ = 12 ☐
3 + ___ = 13 ☐	10 + ___ = 13 ☐	1 + ___ = 5 ☐	3 + ___ = 15 ☐
10 + ___ = 12 ☐	9 + ___ = 15 ☐	9 + ___ = 16 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain kicked a soccer ball, then clicked a stopwatch.
2. The villain passed a football, then drank a water bottle.
3. The villain served a tennis ball, then blew a loud whistle.
4. The villain drove a go-kart, then blew a loud whistle.
5. The villain served a tennis ball, then wiped a sweatband.
6. The villain passed a football, then blew a loud whistle.
7. The villain kicked a soccer ball, then blew a loud whistle.
8. The villain dribbled a basketball, then wiped a sweatband.
9. The villain drove a go-kart, then dropped a clipboard.
10. The villain dribbled a basketball, then drank a water bottle.
11. The villain served a tennis ball, then clicked a stopwatch.
12. The villain dribbled a basketball, then dropped a clipboard.

TEACHER / PARENT

Answer Key

The Camp Grizzly Valley Mystery

Culprit: Zion

tennis · stopwatch · left-handed · green cap · juice box

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE SNEAKY CAMPER HAS NO WATER BOTTLE"

12 - 9 = 3 (T) · 8 - 6 = 2 (O) · 11 - 3 = 8 (A) · 19 - 4 = 15 (K) · 15 - 4 = 11 (H) · 13 - 8 = 5 (B) · 16 - 9 = 7 (P) · 12 - 2 = 10 (M) · 7 - 1 = 6 (Y) · 13 - 9 = 4 (L) · 19 - 6 = 13 (N) · 15 - 1 = 14 (W) · 19 - 3 = 16 (R) · 12 - 3 = 9 (S) · 16 - 4 = 12 (C) · 20 - 1 = 19 (E)

Clue 2 (Addition): "THE CLUES WERE SIGNED WITH A LEFT HAND"

5 + 4 = 9 (T) · 1 + 3 = 4 (C) · 2 + 1 = 3 (F) · 8 + 12 = 20 (U) · 1 + 4 = 5 (N) · 9 + 9 = 18 (E) · 12 + 5 = 17 (L) · 1 + 5 = 6 (S) · 1 + 1 = 2 (D) · 6 + 7 = 13 (A) · 5 + 7 = 12 (W) · 3 + 7 = 10 (H) · 5 + 2 = 7 (I) · 5 + 10 = 15 (R) · 7 + 9 = 16 (G)

Clue 3 (Place value (tens & ones)): "THERE WAS A EMPTY STRAW FROM A JUICE BOX"

What number has 5 tens and 8 ones? = 58 (T) · What number has 2 tens and 6 ones? = 26 (B) · What number has 8 tens and 7 ones? = 87 (S) · What number has 5 tens and 6 ones? = 56 (C) · What number has 8 tens and 0 ones? = 80 (R) · What number has 2 tens and 1 one? = 21 (X) · What number has 1 ten and 1 one? = 11 (Y) · What number has 9 tens and 5 ones? = 95 (I) · What number has 6 tens and 3 ones? = 63 (W) · What number has 1 ten and 2 ones? = 12 (E) · What number has 7 tens and 3 ones? = 73 (P) · What number has 4 tens and 0 ones? = 40 (F) · What number has 9 tens and 9 ones? = 99 (A) · What number has 5 tens and 4 ones? = 54 (U) · What number has 6 tens and 0 ones? = 60 (M) · What number has 1 ten and 6 ones? = 16 (H) · What number has 9 tens and 7 ones? = 97 (J) · What number has 1 ten and 9 ones? = 19 (O)

Clue 4 (Multiplication facts (1-12)): "A FOREST GREEN THREAD SNAGGED ON THE GATE"

3 × 1 = 3 (A) · 8 × 8 = 64 (O) · 3 × 4 = 12 (D) · 7 × 7 = 49 (S) · 1 × 1 = 1 (N) · 4 × 1 = 4 (G) · 3 × 11 = 33 (F) · 2 × 3 = 6 (R) · 3 × 7 = 21 (H) · 10 × 11 = 110 (E) · 2 × 5 = 10 (T)

Clue 5 (Missing addends): surviving statement is box 11 → Zion

2 + ___ = 11 = 9 · 6 + ___ = 11 = 5 · 6 + ___ = 7 = 1 · 4 + ___ = 12 = 8 · 3 + ___ = 13 = 10 · 10 + ___ = 13 = 3 · 1 + ___ = 5 = 4 · 3 + ___ = 15 = 12 · 10 + ___ = 12 = 2 · 9 + ___ = 15 = 6 · 9 + ___ = 16 = 7