



The Camp Golden Bear Trophy Mystery

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

Detective: _____ Date: _____

The big camp championship game is tonight, but someone has swiped the golden Bear Trophy! The fields are locked down, and the coach needs your help to find out which camper did it before the final whistle blows.

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	FAVORITE SPORT	CAMP GEAR	WATCH WRIST	HAIR COLOR	CAMP WEAKNESS
Miles	Camp Crafts	Bear Backpack	Left Wrist Watch	Blonde Hair	Water Balloons
Caitlin	Camp Crafts	Golden Whistle	Right Wrist Watch	Blonde Hair	Water Balloons
Shaq	Track Star	Speed Goggles	Left Wrist Watch	Brown Hair	Melted S'mores
Ada	Track Star	Golden Whistle	Right Wrist Watch	Blonde Hair	Water Balloons
LeBron	Track Star	Blue Headband	Right Wrist Watch	Blonde Hair	Water Balloons
Lewis	Camp Crafts	Golden Whistle	Left Wrist Watch	Brown Hair	Melted S'mores
Coach Cal	Camp Crafts	Lucky Socks	Right Wrist Watch	Blonde Hair	Water Balloons
Patrick	Kart Racing	Lucky Socks	Left Wrist Watch	Blonde Hair	Water Balloons
Steph	Football	Golden Whistle	Left Wrist Watch	Blonde Hair	Cold Lemonade
Danica	Camp Crafts	Lucky Socks	Left Wrist Watch	Black Hair	Water Balloons
Giannis	Kart Racing	Blue Headband	Right Wrist Watch	Brown Hair	Cold Lemonade
Lando	Camp Crafts	Speed Goggles	Right Wrist Watch	Brown Hair	Water Balloons
Travis	Football	Speed Goggles	Left Wrist Watch	Black Hair	Cold Lemonade
Coco	Football	Golden Whistle	Right Wrist Watch	Brown Hair	Cold Lemonade
Cassius	Track Star	Lucky Socks	Left Wrist Watch	Brown Hair	Water Balloons
Teddy	Camp Crafts	Lucky Socks	Right Wrist Watch	Blonde Hair	Cold Lemonade
Simone	Basketball	Speed Goggles	Right Wrist Watch	Black Hair	Water Balloons
Addie	Kart Racing	Blue Headband	Right Wrist Watch	Blonde Hair	Water Balloons
Messi	Camp Crafts	Golden Whistle	Right Wrist Watch	Blonde Hair	Melted S'mores
Bubba	Kart Racing	Blue Headband	Left Wrist Watch	Blonde Hair	Water Balloons
Tom	Basketball	Blue Headband	Right Wrist Watch	Black Hair	Water Balloons

Place value (tens & ones)

Teddy looked at the camp points board. The digits were scrambled, but knowing the place value of the tens digit unlocked the locker.

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

Diagram illustrating a sequence of numbers and positions:

Top row (Positions 1 to 18):

- Position 1: T
- Position 2: 98
- Position 3: 31
- Position 4: 73
- Position 5: 58
- Position 6: 42
- Position 7: 99
- Position 8: 83
- Position 9: 52
- Position 10: T
- Position 11: 31
- Position 12: 58
- Position 13: 29
- Position 14: 33
- Position 15: 31
- Position 16: 52
- Position 17: 99
- Position 18: 33
- Position 19: T

Bottom row (Positions 1 to 10):

- Position 1: 19
- Position 2: 31
- Position 3: 42
- Position 4: 58
- Position 5: 93
- Position 6: 97
- Position 7: 86
- Position 8: 83
- Position 9: 26
- Position 10: 52
- Position 11: 33
- Position 12: 86
- Position 13: 83
- Position 14: 52

What number has 7 tens and 2 ones? → T

What number has 1 ten and 9 ones? → **W**

What number has 5 tens and 8 ones? → **R**

What number has 8 tens and 6 ones? → **C**

What number has 9 tens and 9 ones? → **N**

What number has 3 tens and 1 one? → **E**

What number has 5 tens and 2 ones? → **S**

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

What number has 4 tens and 2 ones? → **A**

What number has 2 tens and 9 ones? → **D**

What number has 8 tens and 3 ones? → **K**

What number has 9 tens and 7 ones? → **U**

What number has 9 tens and 8 ones? → **H**

What number has 2 tens and 6 ones? → **Y**

What number has 3 tens and 3 ones? → **O**

What number has 9 tens and 3 ones? → **L**

Scratch space:

CLUE 2

Addie counted the rows of basketballs. There were several racks with a set number on each, and multiplying them gave the code to the equipment shed.

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

8 50 49 42 144 21 42 50 9 21 49 9 21 54 40 77 121 50 8

110 40 77 42 8 110 54 8 84 50

$2 \times 4 = \boxed{} \rightarrow \boxed{\text{T}}$

$$10 \times 11 = \boxed{} \rightarrow \boxed{W}$$

$$6 \times 7 = \boxed{} \rightarrow \boxed{\text{S}}$$

$11 \times 7 = \boxed{} \rightarrow \boxed{1}$

$9 \times 6 = \boxed{} \rightarrow \boxed{\text{A}}$

$1 \times 9 = \boxed{} \rightarrow \boxed{0}$

$8 \times 5 = \boxed{} \rightarrow \boxed{\text{R}}$

$11 \times 11 = \boxed{} \rightarrow \boxed{\text{G}}$

$$12 \times 12 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$7 \times 7 = \boxed{} \rightarrow \boxed{\text{E}}$$

$5 \times 10 = \boxed{} \rightarrow \boxed{\text{H}}$

$12 \times 7 = \boxed{} \rightarrow \boxed{\text{C}}$

$7 \times 3 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3 Rounding

Miles checked the speed radar on the racing track. It only displays speeds rounded to the nearest ten, which helped him narrow down the clue.

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

T			T						T							
2000	70	500	2000	300	40	700	70	200	2000	70	90	500	6000	300	9000	20
					T											
6000	300	40	900	4000	9000	2000	500	300	7000	9000	400	400	40	40	20	8000

Round 1,862 to the nearest thousand → **T**

Round 4,171 to the nearest thousand → **W**

Round 91 to the nearest ten → **I**

Round 270 to the nearest hundred → **R**

Round 196 to the nearest hundred → **Y**

Round 389 to the nearest hundred → **L**

Round 67 to the nearest ten → **H**

Round 709 to the nearest hundred → **P**

Round 5,950 to the nearest thousand → **F**

Round 7,393 to the nearest thousand → **B**

Round 8,489 to the nearest thousand → **S**

Round 39 to the nearest ten → **O**

Round 9,309 to the nearest thousand → **A**

Round 24 to the nearest ten → **N**

Round 906 to the nearest hundred → **M**

Round 512 to the nearest hundred → **E**

Scratch space:

CLUE 4

Ada gathered all the lost scrimmage vests. Adding the red vests to the blue vests revealed the total number written on the hidden note.

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

$287 + 512 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$614 + 323 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$416 + 202 = \boxed{} \rightarrow \boxed{\text{C}}$$

$544 + 331 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$259 + 171 = \boxed{} \rightarrow \boxed{\text{D}}$

$179 + 290 = \boxed{} \rightarrow \boxed{\text{E}}$

$$421 + 273 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$193 + 183 = \boxed{} \rightarrow \boxed{\text{H}}$

$269 + 125 = \boxed{} \rightarrow \boxed{\text{S}}$

$226 + 195 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$426 + 503 = \boxed{} \rightarrow \boxed{\text{L}}$

$$91 + 114 = \boxed{} \rightarrow \boxed{\mathbf{N}}$$

$$529 + 351 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$258 + 274 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$343 + 620 = \boxed{} \rightarrow \boxed{0}$$

Scratch space:

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

Cassius split the box of energy bars equally among the camp cabins. Dividing them up left a remainder that matched the final lock combination.

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:

$120 \div 10 = \boxed{}$

$72 \div 9 = \boxed{}$

$8 \div 4 = \boxed{}$

$72 \div 8 = \boxed{}$

$63 \div 9 = \boxed{}$

$40 \div 4 = \boxed{}$

$24 \div 8 = \boxed{}$

$7 \div 7 = \boxed{}$

$35 \div 7 = \boxed{}$

$48 \div 8 = \boxed{}$

$48 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain dribbled down the court, then zipped up a bear backpack.
2. The villain zoomed around the track, then adjusted their blue headband.
3. The villain dribbled down the court, then put on shiny speed goggles.
4. The villain sprinted across the field, then put on shiny speed goggles.
5. The villain painted a camp banner, then pulled up some lucky socks.
6. The villain threw a long spiral pass, then adjusted their blue headband.
7. The villain dribbled down the court, then adjusted their blue headband.
8. The villain sprinted across the field, then adjusted their blue headband.
9. The villain threw a long spiral pass, then zipped up a bear backpack.
10. The villain dribbled down the court, then pulled up some lucky socks.
11. The villain sprinted across the field, then blew a loud golden whistle.
12. The villain painted a camp banner, then blew a loud golden whistle.

Answer Key

The Camp Golden Bear Trophy Mystery

Culprit: Ada

Track Star · Golden Whistle · Right Wrist Watch · Blonde Hair · Water Balloons

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value (tens & ones)): "THE PRANKSTER DOES NOT WEAR LUCKY SOCKS"

What number has 7 tens and 2 ones? = 72 (T) · What number has 1 ten and 9 ones? = 19 (W) · What number has 5 tens and 8 ones? = 58 (R) · What number has 8 tens and 6 ones? = 86 (C) · What number has 9 tens and 9 ones? = 99 (N) · What number has 3 tens and 1 one? = 31 (E) · What number has 5 tens and 2 ones? = 52 (S) · What number has 7 tens and 3 ones? = 73 (P) · What number has 4 tens and 2 ones? = 42 (A) · What number has 2 tens and 9 ones? = 29 (D) · What number has 8 tens and 3 ones? = 83 (K) · What number has 9 tens and 7 ones? = 97 (U) · What number has 9 tens and 8 ones? = 98 (H) · What number has 2 tens and 6 ones? = 26 (Y) · What number has 3 tens and 3 ones? = 33 (O) · What number has 9 tens and 3 ones? = 93 (L)

Clue 2 (Multiplication facts (1-12)): "THE SUN SHONE ON A RIGHT WRIST WATCH"

$2 \times 4 = 8$ (T) · $10 \times 11 = 110$ (W) · $6 \times 7 = 42$ (S) · $11 \times 7 = 77$ (I) · $9 \times 6 = 54$ (A) · $1 \times 9 = 9$ (O) · $8 \times 5 = 40$ (R) · $11 \times 11 = 121$ (G) · $12 \times 12 = 144$ (U) · $7 \times 7 = 49$ (E) · $5 \times 10 = 50$ (H) · $12 \times 7 = 84$ (C) · $7 \times 3 = 21$ (N)

Clue 3 (Rounding): "THE TROPHY THIEF RAN FROM WATER BALLOONS"

Round 1,862 to the nearest thousand = 2000 (T) · Round 4,171 to the nearest thousand = 4000 (W) · Round 91 to the nearest ten = 90 (I) · Round 270 to the nearest hundred = 300 (R) · Round 196 to the nearest hundred = 200 (Y) · Round 389 to the nearest hundred = 400 (L) · Round 67 to the nearest ten = 70 (H) · Round 709 to the nearest hundred = 700 (P) · Round 5,950 to the nearest thousand = 6000 (F) · Round 7,393 to the nearest thousand = 7000 (B) · Round 8,489 to the nearest thousand = 8000 (S) · Round 39 to the nearest ten = 40 (O) · Round 9,309 to the nearest thousand = 9000 (A) · Round 24 to the nearest ten = 20 (N) · Round 906 to the nearest hundred = 900 (M) · Round 512 to the nearest hundred = 500 (E)

Clue 4 (Addition): "A BRIGHT BLONDE HAIR WAS ON THE BENCH"

$287 + 512 = 799$ (A) · $614 + 323 = 937$ (T) · $416 + 202 = 618$ (C) · $544 + 331 = 875$ (B) · $259 + 171 = 430$ (D) · $179 + 290 = 469$ (E) · $421 + 273 = 694$ (W) · $193 + 183 = 376$ (H) · $269 + 125 = 394$ (S) · $226 + 195 = 421$ (G) · $426 + 503 = 929$ (L) · $91 + 114 = 205$ (N) · $529 + 351 = 880$ (I) · $258 + 274 = 532$ (R) · $343 + 620 = 963$ (O)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Ada

$120 \div 10 = 12$ · $72 \div 9 = 8$ · $8 \div 4 = 2$ · $72 \div 8 = 9$ · $63 \div 9 = 7$ · $40 \div 4 = 10$ · $24 \div 8 = 3$ · $7 \div 7 = 1$ · $35 \div 7 = 5$ · $48 \div 8 = 6$ · $48 \div 12 = 4$