



The Great CAL Blue Camp Mystery

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

Detective: _____ **Date:** _____

Oh no! The morning whistle just blew at CAL Blue camp, but the big gear shed is totally empty. Every single football is missing! Teddy and his younger helpers, Miles and Margot, need to find the sneaky Ball Bandit before the big game starts.

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 Ball Bandit is _____

Possible suspects

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

NAME	CAMP CABIN	FAVORITE DRILL	STRAP STYLE	CAP STYLE	FAVORITE SNACK
Cameron Jordan	Marina Cabin	Punting Drill	Left wrist watch	Backward cap	Orange slice
Davis Webb	Marina Cabin	Tackle Drill	Left wrist watch	Backward cap	Granola bar
Steve Bartkowski	Golden Cabin	Passing Drill	Right wrist watch	Visor	Orange slice
Bryan Anger	Oski Cabin	Tackle Drill	Right wrist watch	Bucket hat	Granola bar
Patrick Laird	Golden Cabin	Snapping Drill	Left wrist watch	Bucket hat	Juice box
Alex Mack	Oski Cabin	Passing Drill	Right wrist watch	Bucket hat	Orange slice
Nnamdi Asomugha	Marina Cabin	Passing Drill	Right wrist watch	Backward cap	Orange slice
Keenan Allen	Golden Cabin	Snapping Drill	Left wrist watch	Bucket hat	Orange slice
Jaylen McCollough	Oski Cabin	Tackle Drill	Right wrist watch	Visor	Granola bar
Craig Morton	Bear Cabin	Snapping Drill	Left wrist watch	Backward cap	Juice box
Marshawn Lynch	Bear Cabin	Punting Drill	Left wrist watch	Backward cap	Juice box
Ron Rivera	Redwood Cabin	Snapping Drill	Left wrist watch	Bucket hat	Granola bar
Aaron Rodgers	Oski Cabin	Tackle Drill	Left wrist watch	Backward cap	Juice box
Daniel Lasco	Golden Cabin	Punting Drill	Left wrist watch	Bucket hat	Granola bar
Lorenzo Alexander	Redwood Cabin	Punting Drill	Left wrist watch	Bucket hat	Granola bar
Jared Goff	Golden Cabin	Punting Drill	Left wrist watch	Backward cap	Granola bar
Justin Forsett	Oski Cabin	Catching Drill	Left wrist watch	Backward cap	Juice box
Shane Vereen	Redwood Cabin	Passing Drill	Left wrist watch	Backward cap	Juice box
Richard Rodgers	Marina Cabin	Passing Drill	Right wrist watch	Backward cap	Juice box
DeSean Jackson	Redwood Cabin	Snapping Drill	Left wrist watch	Bucket hat	Juice box
Tony Gonzalez	Bear Cabin	Catching Drill	Right wrist watch	Bucket hat	Orange slice

CLUE 1 Subtraction

Teddy counts the total empty gear bags in the shed. He subtracts the bags that are still there to find how many are missing. Inside one empty bag, he spots a scrap of paper with a clue!

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

T									T											
261	889	133	192	525	149	738	420	261	738	702	133	291	149	702	261	738	702			

		T												
852	525	261	852	889	420	149	790	738	522	420	675	675	291	

$334 - 73 = \square \rightarrow \boxed{\text{T}}$

$1244 - 392 = \square \rightarrow \boxed{\text{C}}$

$373 - 224 = \square \rightarrow \boxed{\text{N}}$

$905 - 380 = \square \rightarrow \boxed{\text{A}}$

$366 - 174 = \square \rightarrow \boxed{\text{B}}$

$951 - 161 = \square \rightarrow \boxed{\text{G}}$

$729 - 207 = \square \rightarrow \boxed{\text{R}}$

$919 - 217 = \square \rightarrow \boxed{\text{O}}$

$656 - 236 = \square \rightarrow \boxed{\text{I}}$

$474 - 341 = \square \rightarrow \boxed{\text{E}}$

$936 - 47 = \square \rightarrow \boxed{\text{H}}$

$1025 - 287 = \square \rightarrow \boxed{\text{D}}$

$854 - 179 = \square \rightarrow \boxed{\text{L}}$

$479 - 188 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

Multiplication facts (1-12)

Margot notices rows of muddy footprints by the sandbox. She multiplies the number of rows by the prints in each row to count them. Under the last print, she finds a dropped note.

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

The diagram consists of two rows of boxes. The top row has 15 boxes, and the bottom row has 15 boxes. Some boxes are shaded orange and contain the letter 'T', while others are white and contain numbers. The numbers are: Row 1: 3, 4, 45, 6, 100, 45, 35, 36, 81, 56, 35, 100, 12, 44, 3; Row 2: 35, 99, 45, 16, 3, 33, 110, 44, 6, 3, 33, 35, 3, 50, 4.

$1 \times 3 = \boxed{} \rightarrow \boxed{\text{T}}$

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

$9 \times 9 = \boxed{} \rightarrow \boxed{\text{Y}}$

$5 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$7 \times 8 = \boxed{} \rightarrow \boxed{\text{B}}$

$1 \times 4 = \boxed{} \rightarrow \boxed{\text{H}}$

$$10 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{N}}$$

$11 \times 4 = \boxed{} \rightarrow \boxed{I}$

$3 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$1 \times 6 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$9 \times 5 = \boxed{} \rightarrow \boxed{\text{E}}$

$11 \times 3 = \square \rightarrow \mathbf{W}$

$4 \times 9 = \boxed{} \rightarrow \boxed{\text{K}}$

$10 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{R}}$

$9 \times 11 = \boxed{} \rightarrow \boxed{\text{L}}$

$2 \times 8 = \boxed{} \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 3 Skip counting

Miles counts the blue flags along the camp path by twos to find his way to the mess hall. Next to the tenth flag, he finds a secret camper journal.

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

T			T															
130	110	12	130	110	15	12	21	33	24	40	24	8	24	20	8	110	12	40
120	15	100	12	40	24	55	26	15	28	12	42	80	39					

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **T**

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

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **V**

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **A**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **W**

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **I**

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **X**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **C**

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **Y**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **G**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **F**

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

Scratch space:

CLUE 4 Rounding

Teddy looks at the digital camp clock, which rounds the minutes to the nearest ten when the battery is low. The rounded time helps him unlock a locker with a clue inside.

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

A		A				A				A			A						
7000	900	7000	40	6000	700	7000	600	50	40	7000	2000	700	7000	80	8000	60	30	200	
3000	300	200	90	60	30	800	60	8000	50										

Round 7,470 to the nearest thousand → **A**

Round 560 to the nearest hundred → **R**

Round 92 to the nearest ten → **H**

Round 8,343 to the nearest thousand → **L**

Round 2,543 to the nearest thousand → **O**

Round 46 to the nearest ten → **D**

Round 39 to the nearest ten → **C**

Round 788 to the nearest hundred → **I**

Round 343 to the nearest hundred → **N**

Round 2,213 to the nearest thousand → **P**

Round 154 to the nearest hundred → **T**

Round 81 to the nearest ten → **S**

Round 62 to the nearest ten → **E**

Round 695 to the nearest hundred → **W**

Round 928 to the nearest hundred → **B**

Round 33 to the nearest ten → **F**

Round 5,670 to the nearest thousand → **K**

Scratch space:

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

Margot shares twelve orange slices equally among the three of them. When they finish eating, they see a message written on the bottom of the empty plate!

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:

$8 \div 4 = \boxed{}$

$11 \div 11 = \boxed{}$

$35 \div 5 = \boxed{}$

$36 \div 6 = \boxed{}$

$40 \div 4 = \boxed{}$

$72 \div 6 = \boxed{}$

$18 \div 6 = \boxed{}$

$16 \div 2 = \boxed{}$

$18 \div 2 = \boxed{}$

$33 \div 3 = \boxed{}$

$55 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sneaks out of Bear Cabin, then grabs the pigskin during the Punting Drill.
2. The villain tiptoes away from Oski Cabin, then steals the ball during the Tackle Drill.
3. The villain escapes from Marina Cabin, then grabs the pigskin during the Punting Drill.
4. The villain runs away from Redwood Cabin, then snatches the football during the Passing Drill.
5. The villain escapes from Marina Cabin, then pockets the ball during the Catching Drill.
6. The villain escapes from Marina Cabin, then steals the ball during the Tackle Drill.
7. The villain sneaks out of Bear Cabin, then takes the football during the Snapping Drill.
8. The villain creeps out of Golden Cabin, then grabs the pigskin during the Punting Drill.
9. The villain tiptoes away from Oski Cabin, then pockets the ball during the Catching Drill.
10. The villain creeps out of Golden Cabin, then snatches the football during the Passing Drill.
11. The villain escapes from Marina Cabin, then snatches the football during the Passing Drill.
12. The villain runs away from Redwood Cabin, then grabs the pigskin during the Punting Drill.

Answer Key

The Great CAL Blue Camp Mystery

Culprit: Shane Vereen

Redwood Cabin · Passing Drill · Left wrist watch · Backward cap · Juice box

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE BANDIT DOES NOT DO CATCHING DRILLS"

$334 - 73 = 261$ (T) · $1244 - 392 = 852$ (C) · $373 - 224 = 149$ (N) · $905 - 380 = 525$ (A) · $366 - 174 = 192$ (B) · $951 - 161 = 790$ (G) · $729 - 207 = 522$ (R) · $919 - 217 = 702$ (O) · $656 - 236 = 420$ (I) · $474 - 341 = 133$ (E) · $936 - 47 = 889$ (H) · $1025 - 287 = 738$ (D) · $854 - 179 = 675$ (L) · $479 - 188 = 291$ (S)

Clue 2 (Multiplication facts (1-12)): "THE SNEAKY BANDIT WEARS A LEFT WRIST WATCH"

$1 \times 3 = 3$ (T) · $5 \times 10 = 50$ (C) · $9 \times 9 = 81$ (Y) · $5 \times 7 = 35$ (A) · $7 \times 8 = 56$ (B) · $1 \times 4 = 4$ (H) · $10 \times 10 = 100$ (N) · $11 \times 4 = 44$ (I) · $3 \times 4 = 12$ (D) · $1 \times 6 = 6$ (S) · $9 \times 5 = 45$ (E) · $11 \times 3 = 33$ (W) · $4 \times 9 = 36$ (K) · $10 \times 11 = 110$ (R) · $9 \times 11 = 99$ (L) · $2 \times 8 = 16$ (F)

Clue 3 (Skip counting): "THE THIEF RAN AWAY WHEN GIVEN A JUICE BOX"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (V) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (W) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (J) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (B) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (X) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (U)

Clue 4 (Rounding): "A BACKWARD CAP WAS LEFT ON THE FIELD"

Round 7,470 to the nearest thousand = 7000 (A) · Round 560 to the nearest hundred = 600 (R) · Round 92 to the nearest ten = 90 (H) · Round 8,343 to the nearest thousand = 8000 (L) · Round 2,543 to the nearest thousand = 3000 (O) · Round 46 to the nearest ten = 50 (D) · Round 39 to the nearest ten = 40 (C) · Round 788 to the nearest hundred = 800 (I) · Round 343 to the nearest hundred = 300 (N) · Round 2,213 to the nearest thousand = 2000 (P) · Round 154 to the nearest hundred = 200 (T) · Round 81 to the nearest ten = 80 (S) · Round 62 to the nearest ten = 60 (E) · Round 695 to the nearest hundred = 700 (W) · Round 928 to the nearest hundred = 900 (B) · Round 33 to the nearest ten = 30 (F) · Round 5,670 to the nearest thousand = 6000 (K)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Shane Vereen

$8 \div 4 = 2$ · $11 \div 11 = 1$ · $35 \div 5 = 7$ · $36 \div 6 = 6$ · $40 \div 4 = 10$ · $72 \div 6 = 12$ · $18 \div 6 = 3$ · $16 \div 2 = 8$ · $18 \div 2 = 9$ · $33 \div 3 = 11$ · $55 \div 11 = 5$