



The Great Blue Camp Football Mystery

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

Detective: _____ **Date:** _____

Welcome to CAL Blue Camp! The sun is shining, the turf is warm, and the championship game is today. But wait! Every single football has vanished from the equipment shed! Coach needs your help to find the culprit and save the big game.

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 Football Thief is _____

Possible suspects

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

NAME	MAIN FOOTBALL DRILL	LUCKY CAMP GEAR	THROWING HAND	CAMP HAIRSTYLE	WEAKNESS SNACK
Marshawn Lynch	power tackle	gold helmet	right handed thrower	cropped buzz	crunchy granola bar
George Kittle	sticky catch	wrist coach	right handed thrower	long ponytail	salty sunflower seeds
DeSean Jackson	lazer throw	gold helmet	left handed thrower	cropped buzz	salty sunflower seeds
Micah Parsons	sonic sprint	sticky gloves	right handed thrower	cropped buzz	crunchy granola bar
Lamar Jackson	spin move	blue visor	left handed thrower	long ponytail	crunchy granola bar
Joe Burrow	power tackle	gold helmet	left handed thrower	cropped buzz	crunchy granola bar
Derrick Henry	power tackle	blue visor	right handed thrower	curly locks	salty sunflower seeds
Aaron Rodgers	sonic sprint	blue visor	left handed thrower	curly locks	crunchy granola bar
Stefon Diggs	sonic sprint	sticky gloves	right handed thrower	cropped buzz	salty sunflower seeds
Justin Jefferson	sonic sprint	sticky gloves	left handed thrower	cropped buzz	salty sunflower seeds
Cameron Jordan	sonic sprint	sticky gloves	left handed thrower	curly locks	lemon lime gatorade
Saquon Barkley	lazer throw	gold helmet	right handed thrower	cropped buzz	lemon lime gatorade
Patrick Mahomes	power tackle	wrist coach	right handed thrower	long ponytail	lemon lime gatorade
Davante Adams	spin move	cleat spikes	right handed thrower	cropped buzz	crunchy granola bar
Dak Prescott	sticky catch	gold helmet	right handed thrower	long ponytail	crunchy granola bar
Christian McCaffrey	lazer throw	wrist coach	left handed thrower	cropped buzz	crunchy granola bar
Jalen Hurts	spin move	wrist coach	right handed thrower	curly locks	salty sunflower seeds
Keenan Allen	spin move	wrist coach	left handed thrower	curly locks	crunchy granola bar
Nick Bosa	sonic sprint	wrist coach	left handed thrower	curly locks	crunchy granola bar
Travis Kelce	sonic sprint	cleat spikes	right handed thrower	cropped buzz	crunchy granola bar
Jared Goff	sticky catch	blue visor	right handed thrower	cropped buzz	crunchy granola bar

CLUE 1
Multiplication facts (1-12)

To find the first clue, we counted five boxes of practice jerseys with six in each box.

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

T																T
22	9	2	28	72	8	8	84	72	110	132	30	2	21	110	30	22
					T											
70	2	84	120	21	22	72	35	14	27	25	8	30	28	2	21	

$11 \times 2 = \square \rightarrow \text{T}$

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

$10 \times 7 = \square \rightarrow \text{W}$

$9 \times 1 = \square \rightarrow \text{H}$

$10 \times 3 = \square \rightarrow \text{O}$

$10 \times 11 = \square \rightarrow \text{N}$

$9 \times 8 = \square \rightarrow \text{I}$

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

$4 \times 7 = \square \rightarrow \text{V}$

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

$5 \times 5 = \square \rightarrow \text{G}$

$2 \times 1 = \square \rightarrow \text{E}$

$2 \times 7 = \square \rightarrow \text{K}$

$10 \times 12 = \square \rightarrow \text{R}$

$4 \times 2 = \square \rightarrow \text{L}$

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

$3 \times 9 = \square \rightarrow \text{Y}$

Scratch space:

CLUE 2 Skip counting

The next clue was hidden by the yard lines, counting up by fives all the way to fifty.

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

T								T							
60	15	26	140	40	110	15	60	15	130	22	120	26	120		

T										T							T	
60	15	140	70	35	26	140	33	130	65	60	130	140	40	110	15	60	39	

65	15	130	120	70	35

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **T**

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **R**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **S**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 → **O**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **W**

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

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

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

Scratch space:

CLUE 3

Subtraction

We checked the equipment locker and subtracted the nine popped balls from our total of thirty.

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

T																			
8516	7756	4427	3771	3180	2687	2310	2322	7191	7608	4427	6176	5700	3180	2687	2310	4751	3180	7756	3771

4329	2687	5700	4751	5274	7608	5700	7191	5700	2687

$$10137 - 1621 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$5508 - 2821 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$8333 - 725 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$7941 - 4761 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$9436 - 1680 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2384 - 74 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$8110 - 4339 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$9390 - 3214 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$6007 - 1580 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$8199 - 3870 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$10146 - 2955 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$7470 - 2196 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$6641 - 4319 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$10588 - 4888 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$7307 - 2556 = \boxed{} \rightarrow \boxed{\text{N}}$$

Scratch space:

CLUE 4
Place value (tens & ones)

A clue was taped to the locker where the digit in the tens place was a four.

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

A																	
22	33	86	54	78	18	35	78	54	32	32	48	85	61	49	34	34	

	A									A	
86	22	29	78	54	69	18	86	48	61	22	77

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

What number has 7 tens and 8 ones? → **R**

What number has 1 ten and 8 ones? → **T**

What number has 3 tens and 2 ones? → **P**

What number has 5 tens and 4 ones? → **O**

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

What number has 4 tens and 9 ones? → **U**

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

What number has 3 tens and 5 ones? → **C**

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

What number has 4 tens and 8 ones? → **E**

What number has 6 tens and 9 ones? → **N**

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

What number has 6 tens and 1 one? → **B**

What number has 7 tens and 7 ones? → **G**

What number has 3 tens and 4 ones? → **Z**

Scratch space:

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

We cracked the final clue by dividing twenty-four energy bars equally among six campers.

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:

$32 \div 8 = \boxed{}$

$72 \div 9 = \boxed{}$

$110 \div 10 = \boxed{}$

$9 \div 1 = \boxed{}$

$16 \div 8 = \boxed{}$

$20 \div 2 = \boxed{}$

$12 \div 2 = \boxed{}$

$12 \div 4 = \boxed{}$

$15 \div 3 = \boxed{}$

$12 \div 1 = \boxed{}$

$10 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain fakes left with a quick spin, then adjusts their bright blue visor.
2. The villain fakes left with a quick spin, then checks their plays on the wrist coach.
3. The villain sprints down the sideline, then adjusts their bright blue visor.
4. The villain fakes left with a quick spin, then digs in with sharp cleat spikes.
5. The villain throws a perfect lazer pass, then adjusts their bright blue visor.
6. The villain throws a perfect lazer pass, then digs in with sharp cleat spikes.
7. The villain charges with a heavy tackle, then flashes their shiny gold helmet.
8. The villain sprints down the sideline, then digs in with sharp cleat spikes.
9. The villain charges with a heavy tackle, then digs in with sharp cleat spikes.
10. The villain throws a perfect lazer pass, then checks their plays on the wrist coach.
11. The villain snatches the ball midair, then adjusts their bright blue visor.
12. The villain snatches the ball midair, then checks their plays on the wrist coach.

Answer Key

The Great Blue Camp Football Mystery

Culprit: Marshawn Lynch

power tackle · gold helmet · right handed thrower · cropped buzz · crunchy granola bar

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT WEAR STICKY GLOVES"

$11 \times 2 = 22$ (T) · $3 \times 7 = 21$ (S) · $10 \times 7 = 70$ (W) · $9 \times 1 = 9$ (H) · $10 \times 3 = 30$ (O) · $10 \times 11 = 110$ (N) · $9 \times 8 = 72$ (I) · $11 \times 12 = 132$ (D) · $4 \times 7 = 28$ (V) · $7 \times 12 = 84$ (A) · $5 \times 5 = 25$ (G) · $2 \times 1 = 2$ (E) · $2 \times 7 = 14$ (K) · $10 \times 12 = 120$ (R) · $4 \times 2 = 8$ (L) · $5 \times 7 = 35$ (C) · $3 \times 9 = 27$ (Y)

Clue 2 (Skip counting): "THE RIGHT HANDED THROWER CAST A RIGHTY SHADOW"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (R) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (N)

Clue 3 (Subtraction): "THEY CRUMBLED A CRUNCHY GRANOLA BAR"

$10137 - 1621 = 8516$ (T) · $5508 - 2821 = 2687$ (R) · $8333 - 725 = 7608$ (L) · $7941 - 4761 = 3180$ (C) · $9436 - 1680 = 7756$ (H) · $2384 - 74 = 2310$ (U) · $8110 - 4339 = 3771$ (Y) · $9390 - 3214 = 6176$ (D) · $6007 - 1580 = 4427$ (E) · $8199 - 3870 = 4329$ (G) · $10146 - 2955 = 7191$ (B) · $7470 - 2196 = 5274$ (O) · $6641 - 4319 = 2322$ (M) · $10588 - 4888 = 5700$ (A) · $7307 - 2556 = 4751$ (N)

Clue 4 (Place value (tens & ones)): "A SHORT CROPPED BUZZ HAIR ON THE BAG"

What number has 2 tens and 2 ones? = 22 (A) · What number has 7 tens and 8 ones? = 78 (R) · What number has 1 ten and 8 ones? = 18 (T) · What number has 3 tens and 2 ones? = 32 (P) · What number has 5 tens and 4 ones? = 54 (O) · What number has 8 tens and 5 ones? = 85 (D) · What number has 4 tens and 9 ones? = 49 (U) · What number has 3 tens and 3 ones? = 33 (S) · What number has 3 tens and 5 ones? = 35 (C) · What number has 8 tens and 6 ones? = 86 (H) · What number has 4 tens and 8 ones? = 48 (E) · What number has 6 tens and 9 ones? = 69 (N) · What number has 2 tens and 9 ones? = 29 (I) · What number has 6 tens and 1 one? = 61 (B) · What number has 7 tens and 7 ones? = 77 (G) · What number has 3 tens and 4 ones? = 34 (Z)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Marshawn Lynch

$32 \div 8 = 4$ · $72 \div 9 = 8$ · $110 \div 10 = 11$ · $9 \div 1 = 9$ · $16 \div 8 = 2$ · $20 \div 2 = 10$ · $12 \div 2 = 6$ · $12 \div 4 = 3$ · $15 \div 3 = 5$ · $12 \div 1 = 12$ · $10 \div 10 = 1$