



The Case of the Missing Golden Lego Cup

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

Detective: _____ **Date:** _____

The Golden Lego Cup has disappeared from the stadium right before the championship game! A sneaky ninja soccer player used special brick-building powers to snatch it. We must look for plastic clues, solve the puzzles, and stop the Shadow Striker before kickoff!

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 Shadow Striker is _____

Possible suspects

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

NAME	SPINJITZU SKILL	NINJA GEAR	KICKING FOOT	HELMET COLOR	MATCH DISTRACTION
Lloyd Garmadon	Wind Kick	Super Jump	Left Footed	Green Helmet	Water Splash
Nya Smith	Wind Kick	Grapple Hook	Left Footed	Blue Helmet	Yellow Cards
Alex Morgan	Spin Kick	Ice Slide	Right Footed	Blue Helmet	Water Splash
Lionel Messi	Smoke Bomb	Laser Sight	Left Footed	Blue Helmet	Loud Whistles
Luka Modric	Spin Kick	Grapple Hook	Right Footed	Green Helmet	Yellow Cards
Kai Smith	Brick Build	Ice Slide	Left Footed	Red Helmet	Water Splash
Cole Brookstone	Brick Build	Grapple Hook	Right Footed	Green Helmet	Water Splash
Lucy Bronze	Shadow Dash	Grapple Hook	Right Footed	Green Helmet	Water Splash
Kevin Debruyne	Spin Kick	Laser Sight	Right Footed	Green Helmet	Yellow Cards
Marcus Rashford	Wind Kick	Laser Sight	Right Footed	Red Helmet	Water Splash
Aitana Bonmati	Smoke Bomb	Ice Slide	Left Footed	Blue Helmet	Water Splash
Neymar Jr	Smoke Bomb	Clone Jutsu	Right Footed	Red Helmet	Water Splash
Son Heungmin	Spin Kick	Ice Slide	Right Footed	Red Helmet	Yellow Cards
Bukayo Saka	Wind Kick	Clone Jutsu	Left Footed	Blue Helmet	Water Splash
Kylian Mbappe	Shadow Dash	Super Jump	Left Footed	Blue Helmet	Water Splash
Harry Kane	Spin Kick	Ice Slide	Right Footed	Red Helmet	Water Splash
Megan Rapinoe	Shadow Dash	Clone Jutsu	Left Footed	Blue Helmet	Water Splash
Zane Julien	Wind Kick	Super Jump	Right Footed	Green Helmet	Water Splash
Jay Walker	Wind Kick	Clone Jutsu	Right Footed	Green Helmet	Water Splash
Marta Silva	Brick Build	Ice Slide	Right Footed	Green Helmet	Water Splash
Sam Kerr	Brick Build	Clone Jutsu	Left Footed	Blue Helmet	Loud Whistles

CLUE 1

The arena scoreboard flashed a giant digital number. The digit in the tens place gives us our first clue about the thief.

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

Diagram illustrating the numbers 500 and 5000 using boxes and labels:

Top row (5000): 500, 40, 30, 90, 3000, 7000, 7000, 20, 3000, 700, 400, 60, 30, 900, 700, 60, 500

Bottom row (500): 50, 900, 30, 4000, 7000, 60, 700, 30, 8000, 50, 500, 900, 50

What is the value of the 5 in 511? → **T**

What is the value of the 4 in 94,891? → **C**

What is the value of the 7 in 7,583? → **L**

What is the value of the 9 in 697? → **V**

What is the value of the 2 in 4,027? → **A**

What is the value of the 4 in 409? → **D**

What is the value of the 7 in 2,794? → **N**

What is the value of the 3 in 3,651? →

What is the value of the 4 in 843? → **H**

What is the value of the 3 in 5,939? → **E**

What is the value of the 5 in 751? → **U**

What is the value of the 6 in 5,062? →

What is the value of the 9 in 908? → **S**

What is the value of the 8 in 8,327? → **J**

Scratch space:

CLUE 2
Multiplication facts (1-12)

To get into the secret training room, we must count the Lego studs on the floor. Multiplying the rows of bricks reveals a hidden note.

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

T							T						T							
22	32	1	30	84	84	22	56	20	5	11	22	36	32	84	121	36	3			

				T				T							
20	5	15	32	22	30	84	84	22	66	5	18	66			

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

$1 \times 5 = \square \rightarrow \boxed{\text{I}}$

$8 \times 4 = \square \rightarrow \boxed{\text{H}}$

$3 \times 10 = \square \rightarrow \boxed{\text{F}}$

$3 \times 6 = \square \rightarrow \boxed{\text{C}}$

$3 \times 5 = \square \rightarrow \boxed{\text{G}}$

$8 \times 7 = \square \rightarrow \boxed{\text{P}}$

$1 \times 3 = \square \rightarrow \boxed{\text{A}}$

$6 \times 11 = \square \rightarrow \boxed{\text{K}}$

$7 \times 12 = \square \rightarrow \boxed{\text{O}}$

$11 \times 11 = \square \rightarrow \boxed{\text{W}}$

$4 \times 5 = \square \rightarrow \boxed{\text{R}}$

$1 \times 11 = \square \rightarrow \boxed{\text{N}}$

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

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

Scratch space:

CLUE 3 Rounding

The villain fled past a speed sensor. The speed tracker rounds the runner speed to the nearest ten, helping us spot a clue.

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

T																			
430	1300	30	300	2900	1100	1100	500	2900	9000	900	1100	2900	50	50	30	20	90	9000	

T					T					
430	1300	30	1700	30	430	2000	70	500	900	900

Round 429 to the nearest ten → **T**

Round 1,325 to the nearest hundred → **H**

Round 889 to the nearest hundred → **S**

Round 73 to the nearest ten → **R**

Round 54 to the nearest ten → **P**

Round 313 to the nearest hundred → **V**

Round 483 to the nearest hundred → **A**

Round 27 to the nearest ten → **E**

Round 1,599 to the nearest thousand → **G**

Round 1,689 to the nearest hundred → **W**

Round 1,071 to the nearest hundred → **L**

Round 8,711 to the nearest thousand → **N**

Round 94 to the nearest ten → **O**

Round 2,887 to the nearest hundred → **I**

Round 24 to the nearest ten → **D**

Scratch space:

CLUE 4 Skip counting

The referee found ninja footprints on the field. Counting the steps by threes lets us follow the trail to another scrap of evidence.

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

G																	
21	14	60	60	65	42	80	24	18	120	10	110	16	60	80	40	60	120
18	110	14	24	42	18	9	60	14	60	26	15	70	65	6			

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

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **D**

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **R**

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **E**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **I**

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

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

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **W**

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

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

Scratch space:

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

We need to split the leftover team water bottles into equal groups. Sharing them evenly reveals a clue written on the bottom of the last cooler.

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:

$22 \div 11 = \boxed{}$

$80 \div 10 = \boxed{}$

$4 \div 4 = \boxed{}$

$99 \div 11 = \boxed{}$

$48 \div 8 = \boxed{}$

$120 \div 12 = \boxed{}$

$33 \div 3 = \boxed{}$

$16 \div 4 = \boxed{}$

$108 \div 9 = \boxed{}$

$12 \div 4 = \boxed{}$

$35 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain built a brick wall, then froze the grass with an ice slide.
2. The villain dashed through shadows, then escaped using a grapple hook.
3. The villain performed a spin kick, then leaped high with a super jump.
4. The villain performed a spin kick, then aimed with a laser sight.
5. The villain threw a smoke bomb, then aimed with a laser sight.
6. The villain kicked a gust of wind, then froze the grass with an ice slide.
7. The villain kicked a gust of wind, then leaped high with a super jump.
8. The villain built a brick wall, then escaped using a grapple hook.
9. The villain threw a smoke bomb, then froze the grass with an ice slide.
10. The villain built a brick wall, then made copies with clone jutsu.
11. The villain built a brick wall, then aimed with a laser sight.
12. The villain threw a smoke bomb, then made copies with clone jutsu.

Answer Key

The Case of the Missing Golden Lego Cup

Culprit: Zane Julien

Wind Kick · Super Jump · Right Footed · Green Helmet · Water Splash

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

Clue 1 (Place value): "THE VILLAIN DOES NOT USE CLONE JUTSU"

What is the value of the 5 in 511? = 500 (T) · What is the value of the 4 in 94,891? = 4000 (C) · What is the value of the 7 in 7,583? = 7000 (L) · What is the value of the 9 in 697? = 90 (V) · What is the value of the 2 in 4,027? = 20 (A) · What is the value of the 4 in 409? = 400 (D) · What is the value of the 7 in 2,794? = 700 (N) · What is the value of the 3 in 3,651? = 3000 (I) · What is the value of the 4 in 843? = 40 (H) · What is the value of the 3 in 5,939? = 30 (E) · What is the value of the 5 in 751? = 50 (U) · What is the value of the 6 in 5,062? = 60 (O) · What is the value of the 9 in 908? = 900 (S) · What is the value of the 8 in 8,327? = 8000 (J)

Clue 2 (Multiplication facts (1-12)): "THE FOOTPRINT SHOWS A RIGHT FOOT KICK"

$2 \times 11 = 22$ (T) · $1 \times 5 = 5$ (I) · $8 \times 4 = 32$ (H) · $3 \times 10 = 30$ (F) · $3 \times 6 = 18$ (C) · $3 \times 5 = 15$ (G) · $8 \times 7 = 56$ (P) · $1 \times 3 = 3$ (A) · $6 \times 11 = 66$ (K) · $7 \times 12 = 84$ (O) · $11 \times 11 = 121$ (W) · $4 \times 5 = 20$ (R) · $1 \times 11 = 11$ (N) · $6 \times 6 = 36$ (S) · $1 \times 1 = 1$ (E)

Clue 3 (Rounding): "THE VILLAIN SLIPPED ON THE WET GRASS"

Round 429 to the nearest ten = 430 (T) · Round 1,325 to the nearest hundred = 1300 (H) · Round 889 to the nearest hundred = 900 (S) · Round 73 to the nearest ten = 70 (R) · Round 54 to the nearest ten = 50 (P) · Round 313 to the nearest hundred = 300 (V) · Round 483 to the nearest hundred = 500 (A) · Round 27 to the nearest ten = 30 (E) · Round 1,599 to the nearest thousand = 2000 (G) · Round 1,689 to the nearest hundred = 1700 (W) · Round 1,071 to the nearest hundred = 1100 (L) · Round 8,711 to the nearest thousand = 9000 (N) · Round 94 to the nearest ten = 90 (O) · Round 2,887 to the nearest hundred = 2900 (I) · Round 24 to the nearest ten = 20 (D)

Clue 4 (Skip counting): "GREEN PLASTIC HELMET SCRAPS WERE FOUND"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (G) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (U) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (M) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (A)

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

$22 \div 11 = 2$ · $80 \div 10 = 8$ · $4 \div 4 = 1$ · $99 \div 11 = 9$ · $48 \div 8 = 6$ · $120 \div 12 = 10$ · $33 \div 3 = 11$ · $16 \div 4 = 4$ · $108 \div 9 = 12$ · $12 \div 4 = 3$ · $35 \div 7 = 5$