



The Great Golden Cup Mystery

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

Detective: _____ **Date:** _____

Just before the final whistle of the championship game, someone sneaked into the trophy room and snatched the Golden Cup! The ref called a timeout so you can examine the field and catch the culprit.

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 bandit is _____

Possible suspects

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

NAME	SIGNATURE KICK	SPECIAL GEAR	DOMINANT FOOT	HAIRBAND COLOR	LOCKER KEY
Kylian Mbappe	Banana Curve	Captain Armband	Left Footed	Green Hairband	Bronze Key
Megan Rapinoe	Bicycle Kick	Padded Shin Guards	Left Footed	Blue Hairband	Brass Key
Jude Bellingham	Power Rocket	Gold Whistle	Right Footed	Red Hairband	Silver Key
Alex Morgan	Bicycle Kick	Grip Gloves	Right Footed	Red Hairband	Brass Key
Cristiano Ronaldo	Banana Curve	Captain Armband	Right Footed	Red Hairband	Brass Key
Son Heungmin	Banana Curve	Padded Shin Guards	Left Footed	Green Hairband	Silver Key
Sam Kerr	Power Rocket	Captain Armband	Right Footed	Red Hairband	Silver Key
Lamine Yamal	Banana Curve	Captain Armband	Left Footed	Red Hairband	Bronze Key
Kevin De Bruyne	Knuckleball	Captain Armband	Right Footed	Red Hairband	Brass Key
Cole Palmer	Chip Shot	Neon Cleats	Right Footed	Blue Hairband	Brass Key
Lucy Bronze	Knuckleball	Grip Gloves	Left Footed	Red Hairband	Brass Key
Virgil van Dijk	Chip Shot	Captain Armband	Right Footed	Blue Hairband	Brass Key
clueIntros Rhein field lights flickered as Coach Alex counted boxes of soccer balls arranged in equal rows across the grass.	Knuckleball	Gold Whistle	Left Footed	Green Hairband	Silver Key
Rose Lavelle	Bicycle Kick	Gold Whistle	Left Footed	Green Hairband	Brass Key
Pedri	Banana Curve	Neon Cleats	Right Footed	Blue Hairband	Silver Key
Aitana Bonmati	Bicycle Kick	Grip Gloves	Left Footed	Blue Hairband	Brass Key
Alisson Becker	Power Rocket	Neon Cleats	Right Footed	Red Hairband	Brass Key
Rodri	Power Rocket	Gold Whistle	Left Footed	Green Hairband	Silver Key
Erling Haaland	Bicycle Kick	Padded Shin Guards	Right Footed	Red Hairband	Brass Key
Trinity Rodman	Banana Curve	Padded Shin Guards	Right Footed	Green Hairband	Brass Key
Lionel Messi	Chip Shot	Grip Gloves	Right Footed	Blue Hairband	Silver Key

CLUE 1

Multiplication facts (1-12)

The field lights flickered as Coach Alex counted boxes of soccer balls arranged in equal rows across the grass.

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

T									T										T
32	30	4	81	28	144	110	48	32	110	6	4	7	144	6	32				
8	4	28	96	33	28	110	110	4	110	7	30	48	144	45	84	28	96	110	7

$4 \times 8 = \square \rightarrow \text{T}$

$1 \times 4 = \square \rightarrow \text{E}$

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

$11 \times 3 = \square \rightarrow \text{P}$

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

$12 \times 12 = \square \rightarrow \text{N}$

$6 \times 1 = \square \rightarrow \text{O}$

$8 \times 1 = \square \rightarrow \text{W}$

$9 \times 9 = \square \rightarrow \text{B}$

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

$8 \times 12 = \square \rightarrow \text{R}$

$1 \times 7 = \square \rightarrow \text{S}$

$8 \times 6 = \square \rightarrow \text{I}$

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

$5 \times 9 = \square \rightarrow \text{G}$

Scratch space:

CLUE 2

Walking along the sideline, the referee stepped past marker cones spaced out at equal jump intervals.

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

Diagram illustrating the sequence of numbers and the placement of 'T' markers across two rows of boxes.

Row 1 (Top):

- Box 1: 15 (T)
- Box 2: 28
- Box 3: 70
- Box 4: 55
- Box 5: 120
- Box 6: 35
- Box 7: 24
- Box 8: 70
- Box 9: 36
- Box 10: 22
- Box 11: 90
- Box 12: 70
- Box 13: 33
- Box 14: 35
- Box 15: 36
- Box 16: 26
- Box 17: 100
- Box 18: 28
- Box 19: 15 (T)

Row 2 (Bottom):

- Box 1: 16
- Box 2: 9
- Box 3: 9
- Box 4: 15 (T)
- Box 5: 70
- Box 6: 33
- Box 7: 90
- Box 8: 15 (T)
- Box 9: 36
- Box 10: 26
- Box 11: 45
- Box 12: 70

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **R**

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

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

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

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

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

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

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

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

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **Y**

Scratch space:

CLUE 3
Rounding

The digital stadium board flashed brightly, rounding the fan attendance tally to the nearest hundred.

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

T																	
230	30	170	70	4300	1100	5000	370	900	200	4300	700	370	1100	9000	5000	1100	430
						T											
290	170	130	200	700	230	30	170	70	5000	1100	430	430					

Round 227 to the nearest ten → **T**

Round 8,706 to the nearest thousand → **B**

Round 27 to the nearest ten → **H**

Round 133 to the nearest ten → **Y**

Round 4,748 to the nearest thousand → **R**

Round 431 to the nearest ten → **S**

Round 171 to the nearest ten → **E**

Round 370 to the nearest ten → **D**

Round 747 to the nearest hundred → **N**

Round 874 to the nearest hundred → **F**

Round 293 to the nearest ten → **K**

Round 70 to the nearest ten → **G**

Round 192 to the nearest hundred → **O**

Round 4,316 to the nearest hundred → **U**

Round 1,085 to the nearest hundred → **A**

Scratch space:

CLUE 4 Addition

Inside the gear room, the assistant manager added up all the scattered water bottles and practice cones.

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

A					A				A							
6529	2681	8887	6313	6790	6529	8203	2681	3298	6529	2531	6313	6973	8887	5454	5454	

		A												A		
2531	8887	6529	2681	5448	6790	8887	6622	4788	2681	2531	8887	2681	6973	5454	6529	6290

$3740 + 2789 = \boxed{} \rightarrow \boxed{\text{A}}$

$2307 + 4483 = \boxed{} \rightarrow \boxed{\text{H}}$

$2013 + 3435 = \boxed{} \rightarrow \boxed{\text{T}}$

$4771 + 3432 = \boxed{} \rightarrow \boxed{\text{I}}$

$1268 + 1263 = \boxed{} \rightarrow \boxed{\text{N}}$

$2389 + 4584 = \boxed{} \rightarrow \boxed{\text{F}}$

$3786 + 1668 = \boxed{} \rightarrow \boxed{\text{L}}$

$2420 + 3893 = \boxed{} \rightarrow \boxed{\text{D}}$

$1934 + 2854 = \boxed{} \rightarrow \boxed{\text{O}}$

$3119 + 5768 = \boxed{} \rightarrow \boxed{\text{E}}$

$3557 + 3065 = \boxed{} \rightarrow \boxed{\text{C}}$

$4092 + 2198 = \boxed{} \rightarrow \boxed{\text{G}}$

$1213 + 1468 = \boxed{} \rightarrow \boxed{\text{R}}$

$2121 + 1177 = \boxed{} \rightarrow \boxed{\text{B}}$

Scratch space:

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

Before the big game, the captain divided the fresh team jerseys evenly into the travel bags.

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:

$55 \div 5 = \boxed{}$

$30 \div 3 = \boxed{}$

$144 \div 12 = \boxed{}$

$24 \div 12 = \boxed{}$

$36 \div 12 = \boxed{}$

$72 \div 9 = \boxed{}$

$30 \div 5 = \boxed{}$

$27 \div 3 = \boxed{}$

$45 \div 9 = \boxed{}$

$44 \div 11 = \boxed{}$

$35 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain curled a knuckleball strike, then adjusted a captain armband.
2. The villain curled a knuckleball strike, then polished a gold whistle.
3. The villain fired a power rocket kick, then strapped on padded shin guards.
4. The villain blasted a banana curve shot, then strapped on padded shin guards.
5. The villain blasted a banana curve shot, then laced up neon cleats.
6. The villain blasted a banana curve shot, then pulled on grip gloves.
7. The villain executed a flash bicycle kick, then polished a gold whistle.
8. The villain lofted a gentle chip shot, then pulled on grip gloves.
9. The villain blasted a banana curve shot, then polished a gold whistle.
10. The villain executed a flash bicycle kick, then pulled on grip gloves.
11. The villain blasted a banana curve shot, then adjusted a captain armband.
12. The villain fired a power rocket kick, then laced up neon cleats.

Answer Key

The Great Golden Cup Mystery

Culprit: Kevin De Bruyne

Knuckleball · Captain Armband · Right Footed · Red Hairband · Brass Key

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT WEAR PADDED SHIN GUARDS"

$4 \times 8 = 32$ (T) · $1 \times 4 = 4$ (E) · $11 \times 10 = 110$ (D) · $11 \times 3 = 33$ (P) · $4 \times 7 = 28$ (A) · $12 \times 12 = 144$ (N) · $6 \times 1 = 6$ (O) · $8 \times 1 = 8$ (W) · $9 \times 9 = 81$ (B) · $10 \times 3 = 30$ (H) · $8 \times 12 = 96$ (R) · $1 \times 7 = 7$ (S) · $8 \times 6 = 48$ (I) · $12 \times 7 = 84$ (U) · $5 \times 9 = 45$ (G)

Clue 2 (Skip counting): "THE PLAYER USED A RIGHT FOOTED STRIKE"

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

Clue 3 (Rounding): "THE GUARD FOUND A BRASS KEY ON THE GRASS"

Round 227 to the nearest ten = 230 (T) · Round 8,706 to the nearest thousand = 9000 (B) · Round 27 to the nearest ten = 30 (H) · Round 133 to the nearest ten = 130 (Y) · Round 4,748 to the nearest thousand = 5000 (R) · Round 431 to the nearest ten = 430 (S) · Round 171 to the nearest ten = 170 (E) · Round 370 to the nearest ten = 370 (D) · Round 747 to the nearest hundred = 700 (N) · Round 874 to the nearest hundred = 900 (F) · Round 293 to the nearest ten = 290 (K) · Round 70 to the nearest ten = 70 (G) · Round 192 to the nearest hundred = 200 (O) · Round 4,316 to the nearest hundred = 4300 (U) · Round 1,085 to the nearest hundred = 1100 (A)

Clue 4 (Addition): "A RED HAIRBAND FELL NEAR THE CORNER FLAG"

$3740 + 2789 = 6529$ (A) · $2307 + 4483 = 6790$ (H) · $2013 + 3435 = 5448$ (T) · $4771 + 3432 = 8203$ (I) · $1268 + 1263 = 2531$ (N) · $2389 + 4584 = 6973$ (F) · $3786 + 1668 = 5454$ (L) · $2420 + 3893 = 6313$ (D) · $1934 + 2854 = 4788$ (O) · $3119 + 5768 = 8887$ (E) · $3557 + 3065 = 6622$ (C) · $4092 + 2198 = 6290$ (G) · $1213 + 1468 = 2681$ (R) · $2121 + 1177 = 3298$ (B)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Kevin De Bruyne

$55 \div 5 = 11$ · $30 \div 3 = 10$ · $144 \div 12 = 12$ · $24 \div 12 = 2$ · $36 \div 12 = 3$ · $72 \div 9 = 8$ · $30 \div 5 = 6$ · $27 \div 3 = 9$ · $45 \div 9 = 5$ · $44 \div 11 = 4$ · $35 \div 5 = 7$