



# The Golden Cup Mystery

Grade 3 math · Rounding, Word problems, Bar models, Addition, Division · Reading level grades 3-4

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The Golden Cup is missing! Just before the big championship kickoff, someone broke into the training room and took the trophy. The referee found a muddy trail on the grass and some dropped soccer gear. We need to find which famous soccer star took it before the 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 The Cleat Thief is** \_\_\_\_\_

## Possible suspects

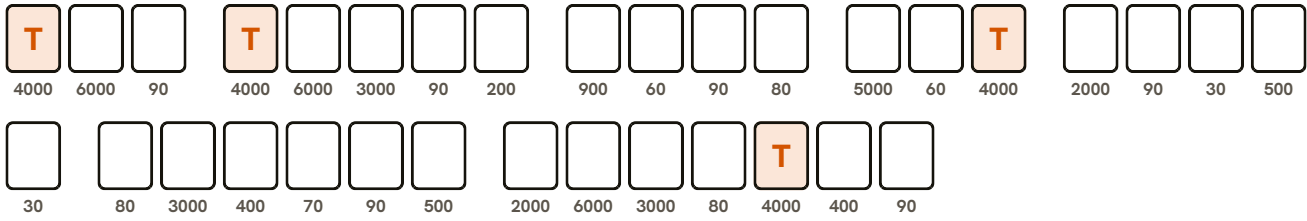
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	LUCKY GEAR	DOMINANT FOOT	HAIR STYLE	FAVORITE SNACK
Marcus Rashford	Power Header	Striped Headband	Left Footed	Curly Blonde Hair	Orange Slices
Jude Bellingham	Slide Tackle	Silver Whistle	Right Footed	Slicked Brown Hair	Energy Bars
Kevin De Bruyne	Curving Free Kick	Striped Headband	Right Footed	Spiky Black Hair	Orange Slices
Lionel Messi	Curving Free Kick	Lucky Wristband	Right Footed	Curly Blonde Hair	Orange Slices
Son Heung-min	Power Header	Striped Headband	Right Footed	Curly Blonde Hair	Orange Slices
Mohamed Salah	Bicycle Kick	Golden Shin Guards	Left Footed	Curly Blonde Hair	Orange Slices
Antoine Griezmann	Bicycle Kick	Silver Whistle	Right Footed	Curly Blonde Hair	Orange Slices
Harry Kane	Slide Tackle	Lucky Wristband	Right Footed	Curly Blonde Hair	Banana Bunch
Sam Kerr	Dribble Spin	Striped Headband	Left Footed	Curly Blonde Hair	Banana Bunch
Luis Diaz	Curving Free Kick	Lucky Wristband	Left Footed	Curly Blonde Hair	Orange Slices
Robert Lewandowski	Power Header	Silver Whistle	Left Footed	Spiky Black Hair	Orange Slices
Kylian Mbappe	Dribble Spin	Neon Cleats	Right Footed	Curly Blonde Hair	Banana Bunch
Megan Rapinoe	Dribble Spin	Striped Headband	Right Footed	Curly Blonde Hair	Orange Slices
Alex Morgan	Curving Free Kick	Golden Shin Guards	Left Footed	Curly Blonde Hair	Banana Bunch
Neymar Jr	Power Header	Neon Cleats	Right Footed	Curly Blonde Hair	Energy Bars
Virgil van Dijk	Dribble Spin	Golden Shin Guards	Left Footed	Spiky Black Hair	Energy Bars
Erling Haaland	Curving Free Kick	Neon Cleats	Left Footed	Spiky Black Hair	Energy Bars
Jack Grealish	Bicycle Kick	Lucky Wristband	Right Footed	Curly Blonde Hair	Energy Bars
Luka Modric	Slide Tackle	Silver Whistle	Right Footed	Spiky Black Hair	Orange Slices
Bukayo Saka	Dribble Spin	Golden Shin Guards	Right Footed	Curly Blonde Hair	Banana Bunch
Cristiano Ronaldo	Bicycle Kick	Golden Shin Guards	Right Footed	Curly Blonde Hair	Orange Slices

**CLUE 1 Rounding**

The equipment manager drew a soccer ball bar model on the tactics board to help us track down who had visited the locker room.

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



Round 3,525 to the nearest thousand  → **T**

Round 534 to the nearest hundred  → **R**

Round 71 to the nearest ten  → **V**

Round 62 to the nearest ten  → **O**

Round 432 to the nearest hundred  → **L**

Round 3,394 to the nearest thousand  → **I**

Round 5,539 to the nearest thousand  → **H**

Round 90 to the nearest ten  → **E**

Round 949 to the nearest hundred  → **D**

Round 5,485 to the nearest thousand  → **N**

Round 1,974 to the nearest thousand  → **W**

Round 77 to the nearest ten  → **S**

Round 32 to the nearest ten  → **A**

Round 237 to the nearest hundred  → **F**

Scratch space:



There were 63 tickets. 38 were used. How many are left?  → **N**

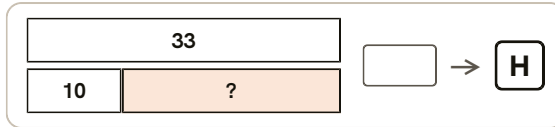
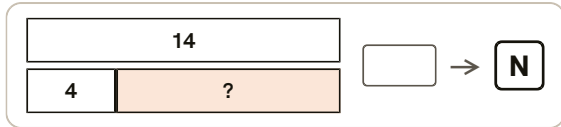
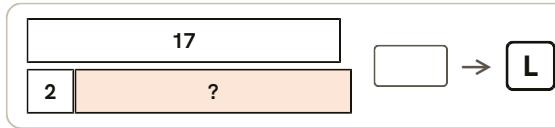
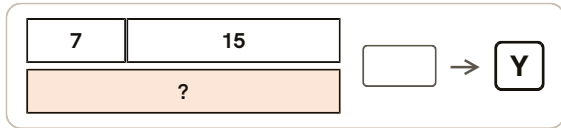
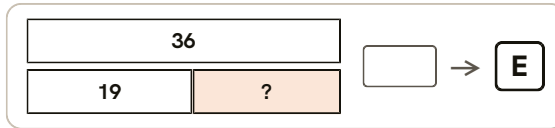
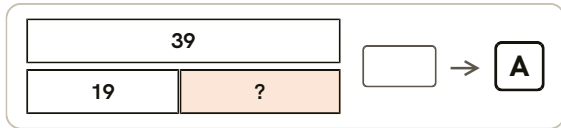
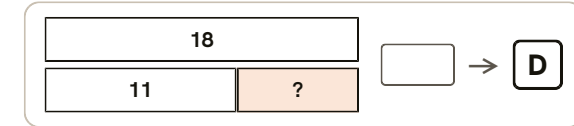
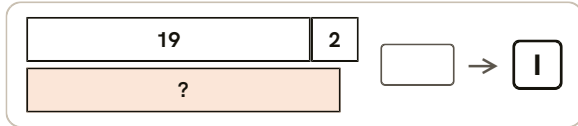
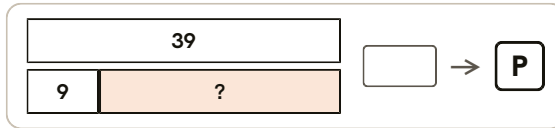
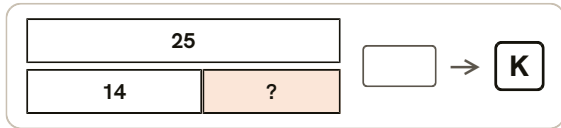
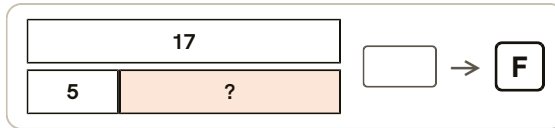
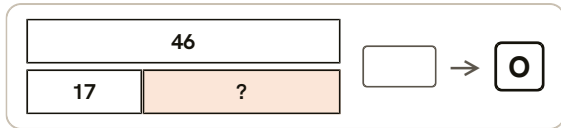
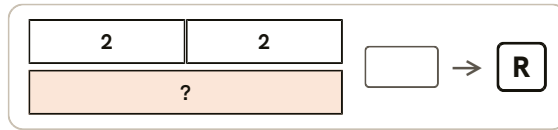
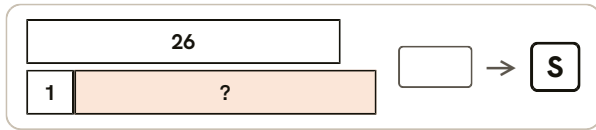
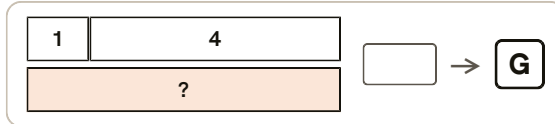
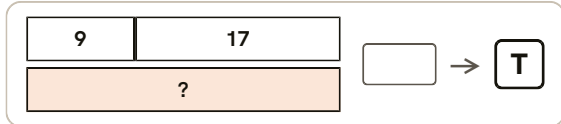
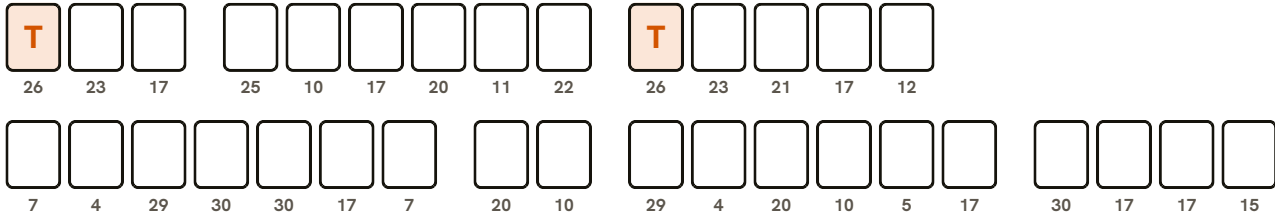
Scratch space:

**CLUE 3**

**Bar models**

The broken stadium scoreboard only shows rounded numbers for the crowd size, but it holds a secret code.

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



Scratch space:

**CLUE 4** Addition

We added up all the dirty socks in the laundry bin to find the secret sum of the suspect's jersey number.

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

<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	
645	722	730	771	680	400	615	865	645	291	932	787	771	291	730	965	645	540
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771	680	603	865	615	863	932	645	540	540								

$409 + 236 = \square \rightarrow$ <input type="text" value="A"/>	$421 + 350 = \square \rightarrow$ <input type="text" value="O"/>	$327 + 288 = \square \rightarrow$ <input type="text" value="E"/>
$292 + 430 = \square \rightarrow$ <input type="text" value="B"/>	$298 + 382 = \square \rightarrow$ <input type="text" value="N"/>	$157 + 243 = \square \rightarrow$ <input type="text" value="D"/>
$311 + 621 = \square \rightarrow$ <input type="text" value="R"/>	$545 + 420 = \square \rightarrow$ <input type="text" value="W"/>	$301 + 562 = \square \rightarrow$ <input type="text" value="G"/>
$249 + 481 = \square \rightarrow$ <input type="text" value="L"/>	$386 + 479 = \square \rightarrow$ <input type="text" value="H"/>	$99 + 192 = \square \rightarrow$ <input type="text" value="I"/>
$278 + 262 = \square \rightarrow$ <input type="text" value="S"/>	$288 + 315 = \square \rightarrow$ <input type="text" value="T"/>	$490 + 297 = \square \rightarrow$ <input type="text" value="C"/>

Scratch space:

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

We divided the clean practice bibs equally among the teams to see who had the extra leftover gear.

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:**

$7 \div 1 = \square$

$3 \div 1 = \square$

$10 \div 10 = \square$

$4 \div 2 = \square$

$48 \div 8 = \square$

$63 \div 7 = \square$

$70 \div 7 = \square$

$36 \div 9 = \square$

$35 \div 7 = \square$

$121 \div 11 = \square$

$72 \div 9 = \square$

**Step 2 - cross out the sentence with each answer:**

1. The villain scores a power header, then adjusts their striped headband.
2. The villain performs a bicycle kick, then shows off their neon cleats.
3. The villain does a dribble spin, then adjusts their striped headband.
4. The villain does a dribble spin, then taps their lucky wristband.
5. The villain performs a bicycle kick, then taps their lucky wristband.
6. The villain scores a power header, then polishes their golden shin guards.
7. The villain curves a free kick, then taps their lucky wristband.
8. The villain scores a power header, then taps their lucky wristband.
9. The villain performs a bicycle kick, then adjusts their striped headband.
10. The villain does a dribble spin, then blows their silver whistle.
11. The villain does a dribble spin, then polishes their golden shin guards.
12. The villain performs a bicycle kick, then polishes their golden shin guards.

# Answer Key

## The Golden Cup Mystery

### Culprit: Cristiano Ronaldo

Bicycle Kick · Golden Shin Guards · Right Footed · Curly Blonde Hair · Orange Slices

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

### Clue 1 (Rounding): "THE THIEF DOES NOT WEAR A SILVER WHISTLE"

Round 3,525 to the nearest thousand = 4000 (T) · Round 534 to the nearest hundred = 500 (R) · Round 71 to the nearest ten = 70 (V) · Round 62 to the nearest ten = 60 (O) · Round 432 to the nearest hundred = 400 (L) · Round 3,394 to the nearest thousand = 3000 (I) · Round 5,539 to the nearest thousand = 6000 (H) · Round 90 to the nearest ten = 90 (E) · Round 949 to the nearest hundred = 900 (D) · Round 5,485 to the nearest thousand = 5000 (N) · Round 1,974 to the nearest thousand = 2000 (W) · Round 77 to the nearest ten = 80 (S) · Round 32 to the nearest ten = 30 (A) · Round 237 to the nearest hundred = 200 (F)

### Clue 2 (Word problems): "THE GRASS WAS TORN BY A RIGHT FOOT"

There were 41 tickets. 7 were used. How many are left? = 34 (T) · A detective found 25 clues on Monday and 46 more on Tuesday. How many clues in all? = 71 (B) · There were 107 tickets. 33 were used. How many are left? = 74 (F) · There were 71 tickets. 4 were used. How many are left? = 67 (A) · There were 25 tickets. 7 were used. How many are left? = 18 (G) · A detective found 24 clues on Monday and 5 more on Tuesday. How many clues in all? = 29 (I) · There were 85 tickets. 9 were used. How many are left? = 76 (O) · There are 7 boxes with 11 clues in each box. How many clues in all? = 77 (E) · A detective found 16 clues on Monday and 53 more on Tuesday. How many clues in all? = 69 (S) · There were 72 tickets. 17 were used. How many are left? = 55 (H) · There are 8 boxes with 7 clues in each box. How many clues in all? = 56 (R) · There are 12 boxes with 6 clues in each box. How many clues in all? = 72 (W) · There are 4 boxes with 8 clues in each box. How many clues in all? = 32 (Y) · There were 63 tickets. 38 were used. How many are left? = 25 (N)

### Clue 3 (Bar models): "THE SNEAKY THIEF DROPPED AN ORANGE PEEL"

One part is 9 and the other part is 17. What is the whole? = 26 (T) · One part is 1 and the other part is 4. What is the whole? = 5 (G) · The whole is 26. One part is 1. What is the other part? = 25 (S) · One part is 2 and the other part is 2. What is the whole? = 4 (R) · One bar shows 46 and the other shows 17. How much longer is the first bar? = 29 (O) · One bar shows 17 and the other shows 5. How much longer is the first bar? = 12 (F) · The whole is 25. One part is 14. What is the other part? = 11 (K) · The whole is 39. One part is 9. What is the other part? = 30 (P) · One part is 19 and the other part is 2. What is the whole? = 21 (I) · The whole is 18. One part is 11. What is the other part? = 7 (D) · The whole is 39. One part is 19. What is the other part? = 20 (A) · The whole is 36. One part is 19. What is the other part? = 17 (E) · One part is 7 and the other part is 15. What is the whole? = 22 (Y) · The whole is 17. One part is 2. What is the other part? = 15 (L) · One bar shows 14 and the other shows 4. How much longer is the first bar? = 10 (N) · One bar shows 33 and the other shows 10. How much longer is the first bar? = 23 (H)

### Clue 4 (Addition): "A BLONDE HAIR COIL WAS ON THE GRASS"

$409 + 236 = 645$  (A) ·  $421 + 350 = 771$  (O) ·  $327 + 288 = 615$  (E) ·  $292 + 430 = 722$  (B) ·  $298 + 382 = 680$  (N) ·  $157 + 243 = 400$  (D) ·  $311 + 621 = 932$  (R) ·  $545 + 420 = 965$  (W) ·  $301 + 562 = 863$  (G) ·  $249 + 481 = 730$  (L) ·  $386 + 479 = 865$  (H) ·  $99 + 192 = 291$  (I) ·  $278 + 262 = 540$  (S) ·  $288 + 315 = 603$  (T) ·  $490 + 297 = 787$  (C)

### Clue 5 (Division facts (1-12)): surviving statement is box 12 → Cristiano Ronaldo

$7 \div 1 = 7$  ·  $3 \div 1 = 3$  ·  $10 \div 10 = 1$  ·  $4 \div 2 = 2$  ·  $48 \div 8 = 6$  ·  $63 \div 7 = 9$  ·  $70 \div 7 = 10$  ·  $36 \div 9 = 4$  ·  $35 \div 7 = 5$  ·  $121 \div 11 = 11$  ·  $72 \div 9 = 8$