



# The Case of the Missing Golden Cleat

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

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

The biggest match of the season is tonight, but the shiny Golden Cleat trophy has vanished from the display case! The Head Coach needs your help to search the stadium, track down the clues, and find the team member who hid it 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 the Cleat Burglar is** \_\_\_\_\_

## Possible suspects

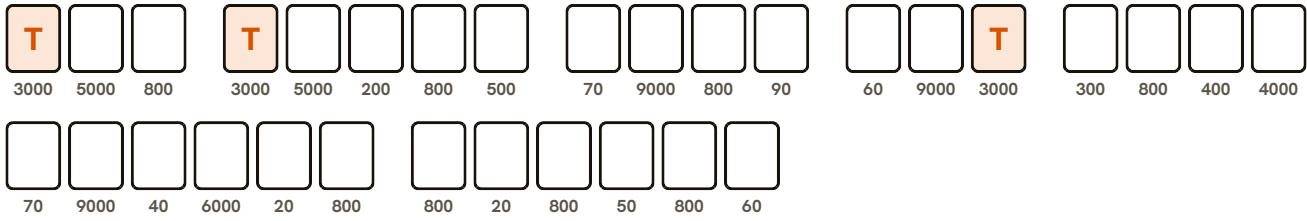
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	LUCKY JERSEY NUMBER	KICKING FOOT	HEADBAND COLOR	FAVORITE TRAINING SNACK
Sonny	Rainbow Flick	Solid Eight	Left Footed	Bright Orange Headband	Orange Slices
Bruno	Bicycle Kick	Perfect Ten	Right Footed	Neon Green Headband	Protein Bars
Kevin	Rainbow Flick	Perfect Ten	Right Footed	Neon Green Headband	Watermelon Chunks
Jude	Header Blast	Double Eleven	Left Footed	Neon Green Headband	Watermelon Chunks
Mason	Rainbow Flick	Solid Eight	Left Footed	Neon Green Headband	Orange Slices
Neymar	Dribble Spin	Solid Eight	Left Footed	Neon Green Headband	Watermelon Chunks
Luka	Dribble Spin	Perfect Ten	Left Footed	Blue Headband	Watermelon Chunks
Leo	Header Blast	Lucky Seven	Left Footed	Neon Green Headband	Watermelon Chunks
Raheem	Dribble Spin	Double Eleven	Right Footed	Blue Headband	Orange Slices
Harry	Power Volley	Super Nine	Left Footed	Bright Orange Headband	Watermelon Chunks
Bukayo	Header Blast	Super Nine	Left Footed	Neon Green Headband	Orange Slices
Virgil	Dribble Spin	Lucky Seven	Right Footed	Bright Orange Headband	Watermelon Chunks
Cristiano	Dribble Spin	Double Eleven	Right Footed	Neon Green Headband	Protein Bars
Mo	Header Blast	Solid Eight	Left Footed	Neon Green Headband	Protein Bars
Robert	Power Volley	Lucky Seven	Left Footed	Neon Green Headband	Watermelon Chunks
Reece	Header Blast	Lucky Seven	Right Footed	Bright Orange Headband	Protein Bars
Phil	Bicycle Kick	Solid Eight	Left Footed	Neon Green Headband	Watermelon Chunks
Sadio	Header Blast	Perfect Ten	Right Footed	Neon Green Headband	Protein Bars
Jack	Power Volley	Double Eleven	Right Footed	Bright Orange Headband	Watermelon Chunks
Declan	Dribble Spin	Perfect Ten	Left Footed	Bright Orange Headband	Orange Slices
Antoine	Header Blast	Super Nine	Left Footed	Blue Headband	Protein Bars

**CLUE 1 Rounding**

The coach drew two long tape diagrams on the tactical whiteboard. By comparing the blocks of team jerseys, we can unlock a secret locker.

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



Round 3,428 to the nearest thousand  → **T**

Round 21 to the nearest ten  → **L**

Round 431 to the nearest hundred  → **A**

Round 831 to the nearest hundred  → **E**

Round 5,286 to the nearest thousand  → **H**

Round 48 to the nearest ten  → **V**

Round 479 to the nearest hundred  → **F**

Round 71 to the nearest ten  → **D**

Round 8,653 to the nearest thousand  → **O**

Round 232 to the nearest hundred  → **I**

Round 3,949 to the nearest thousand  → **R**

Round 91 to the nearest ten  → **S**

Round 43 to the nearest ten  → **U**

Round 61 to the nearest ten  → **N**

Round 331 to the nearest hundred  → **W**

Round 5,701 to the nearest thousand  → **B**

Scratch space:

**CLUE 2** Word problems

The goalie remembers a strange message written on a practice card. Solve the story problem to figure out which player left it behind.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was 

L									
76	66	18	59	18	44	44	59	66	31

.

There were 104 tickets. 28 were used. How many are left?  → **L**

A detective found 12 clues on Monday and 6 more on Tuesday. How many clues in all?  → **F**

There are 11 boxes with 4 clues in each box. How many clues in all?  → **O**

There were 59 tickets. 28 were used. How many are left?  → **D**

There are 6 boxes with 11 clues in each box. How many clues in all?  → **E**

A detective found 41 clues on Monday and 18 more on Tuesday. How many clues in all?  → **T**

Scratch space:





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

The soccer balls must be shared equally among the three training bags. Divide them up to crack the final lock on the trophy room.

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:**

$6 \div 6 = \square$

$42 \div 7 = \square$

$35 \div 5 = \square$

$27 \div 3 = \square$

$6 \div 2 = \square$

$36 \div 3 = \square$

$88 \div 11 = \square$

$60 \div 6 = \square$

$66 \div 6 = \square$

$16 \div 4 = \square$

$55 \div 11 = \square$

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

1. The villain performs a bicycle kick, then tugs their solid eight jersey.
2. The villain dazzles with a dribble spin, then tugs their solid eight jersey.
3. The villain performs a bicycle kick, then salutes with their super nine jersey.
4. The villain dazzles with a dribble spin, then salutes with their super nine jersey.
5. The villain executes a rainbow flick, then taps their perfect ten jersey.
6. The villain unleashes a power volley, then points at their lucky seven jersey.
7. The villain scores with a header blast, then points at their lucky seven jersey.
8. The villain executes a rainbow flick, then flashes their double eleven jersey.
9. The villain scores with a header blast, then salutes with their super nine jersey.
10. The villain unleashes a power volley, then taps their perfect ten jersey.
11. The villain unleashes a power volley, then flashes their double eleven jersey.
12. The villain dazzles with a dribble spin, then points at their lucky seven jersey.

# Answer Key

## The Case of the Missing Golden Cleat

### Culprit: Neymar

Dribble Spin · Solid Eight · Left Footed · Neon Green Headband · Watermelon Chunks

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

### Clue 1 (Rounding): "THE THIEF DOES NOT WEAR DOUBLE ELEVEN"

Round 3,428 to the nearest thousand = 3000 (T) · Round 21 to the nearest ten = 20 (L) · Round 431 to the nearest hundred = 400 (A) · Round 831 to the nearest hundred = 800 (E) · Round 5,286 to the nearest thousand = 5000 (H) · Round 48 to the nearest ten = 50 (V) · Round 479 to the nearest hundred = 500 (F) · Round 71 to the nearest ten = 70 (D) · Round 8,653 to the nearest thousand = 9000 (O) · Round 232 to the nearest hundred = 200 (I) · Round 3,949 to the nearest thousand = 4000 (R) · Round 91 to the nearest ten = 90 (S) · Round 43 to the nearest ten = 40 (U) · Round 61 to the nearest ten = 60 (N) · Round 331 to the nearest hundred = 300 (W) · Round 5,701 to the nearest thousand = 6000 (B)

### Clue 2 (Word problems): "LEFT FOOTED"

There were 104 tickets. 28 were used. How many are left? = 76 (L) · A detective found 12 clues on Monday and 6 more on Tuesday. How many clues in all? = 18 (F) · There are 11 boxes with 4 clues in each box. How many clues in all? = 44 (O) · There were 59 tickets. 28 were used. How many are left? = 31 (D) · There are 6 boxes with 11 clues in each box. How many clues in all? = 66 (E) · A detective found 41 clues on Monday and 18 more on Tuesday. How many clues in all? = 59 (T)

### Clue 3 (Bar models): "WATERMELON CHUNKS"

One part is 7 and the other part is 3. What is the whole? = 10 (W) · One part is 19 and the other part is 1. What is the whole? = 20 (H) · One bar shows 6 and the other shows 2. How much longer is the first bar? = 4 (O) · The whole is 10. One part is 4. What is the other part? = 6 (C) · The whole is 37. One part is 10. What is the other part? = 27 (U) · One bar shows 16 and the other shows 9. How much longer is the first bar? = 7 (A) · The whole is 30. One part is 11. What is the other part? = 19 (S) · The whole is 41. One part is 11. What is the other part? = 30 (E) · One bar shows 24 and the other shows 13. How much longer is the first bar? = 11 (T) · One bar shows 25 and the other shows 3. How much longer is the first bar? = 22 (K) · The whole is 28. One part is 12. What is the other part? = 16 (R) · The whole is 27. One part is 3. What is the other part? = 24 (M) · One part is 9 and the other part is 16. What is the whole? = 25 (N) · The whole is 26. One part is 8. What is the other part? = 18 (L)

### Clue 4 (Addition): "A GLOWING GREEN THREAD WAS LEFT BEHIND"

$249 + 207 = 456$  (A) ·  $332 + 222 = 554$  (S) ·  $134 + 234 = 368$  (H) ·  $502 + 396 = 898$  (W) ·  $155 + 343 = 498$  (T) ·  $428 + 379 = 807$  (E) ·  $352 + 471 = 823$  (G) ·  $288 + 433 = 721$  (I) ·  $200 + 411 = 611$  (O) ·  $145 + 196 = 341$  (N) ·  $263 + 546 = 809$  (F) ·  $150 + 264 = 414$  (R) ·  $412 + 447 = 859$  (D) ·  $140 + 199 = 339$  (B) ·  $161 + 170 = 331$  (L)

### Clue 5 (Division facts (1-12)): surviving statement is box 2 → Neymar

$6 \div 6 = 1$  ·  $42 \div 7 = 6$  ·  $35 \div 5 = 7$  ·  $27 \div 3 = 9$  ·  $6 \div 2 = 3$  ·  $36 \div 3 = 12$  ·  $88 \div 11 = 8$  ·  $60 \div 6 = 10$  ·  $66 \div 6 = 11$  ·  $16 \div 4 = 4$  ·  $55 \div 11 = 5$