



# The Golden Boot Heist

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

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

Oh no! The famous Golden Boot Trophy has been swiped right before the championship game! The thief ran through the locker rooms. We must examine the clues to find the suspect among the players!

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 Trophy Swiper is** \_\_\_\_\_

## Possible suspects

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

| NAME      | SPECIAL MOVE      | LUCKY GEAR      | DOMINANT FOOT | HAIR STYLE     | WEAKNESS           |
|-----------|-------------------|-----------------|---------------|----------------|--------------------|
| Neymar    | Phantom Pass      | Red Wristband   | Right Footed  | Sleek Bun      | Loud Whistle       |
| Alex      | Phantom Pass      | Star Headband   | Right Footed  | Curly Ponytail | Water Splash       |
| Rose      | Phantom Pass      | Neon Cleats     | Right Footed  | Sleek Bun      | Bright Floodlights |
| Sonny     | Phantom Pass      | Neon Cleats     | Left Footed   | Curly Ponytail | Loud Whistle       |
| Zinedine  | Lightning Dribble | Gold Shinguards | Right Footed  | Curly Ponytail | Bright Floodlights |
| David     | Rocket Header     | Red Wristband   | Right Footed  | Curly Ponytail | Water Splash       |
| Kevin     | Phantom Pass      | Star Headband   | Left Footed   | Curly Ponytail | Water Splash       |
| Alisson   | Lightning Dribble | Red Wristband   | Right Footed  | Curly Ponytail | Bright Floodlights |
| Kylian    | Super Wall Save   | Neon Cleats     | Right Footed  | Sleek Bun      | Loud Whistle       |
| Lionel    | Tornado Kick      | Glow Gloves     | Right Footed  | Curly Ponytail | Water Splash       |
| Virgil    | Tornado Kick      | Neon Cleats     | Right Footed  | Sleek Bun      | Bright Floodlights |
| Marta     | Lightning Dribble | Glow Gloves     | Left Footed   | Sleek Bun      | Water Splash       |
| Cristiano | Lightning Dribble | Gold Shinguards | Left Footed   | Curly Ponytail | Loud Whistle       |
| Erling    | Rocket Header     | Gold Shinguards | Right Footed  | Curly Ponytail | Water Splash       |
| Marcus    | Rocket Header     | Red Wristband   | Left Footed   | Curly Ponytail | Bright Floodlights |
| Sam       | Lightning Dribble | Glow Gloves     | Right Footed  | Spiky Hair     | Water Splash       |
| Harry     | Rocket Header     | Gold Shinguards | Right Footed  | Sleek Bun      | Loud Whistle       |
| Bukayo    | Super Wall Save   | Neon Cleats     | Left Footed   | Sleek Bun      | Bright Floodlights |
| Pele      | Lightning Dribble | Neon Cleats     | Right Footed  | Curly Ponytail | Water Splash       |
| Megan     | Lightning Dribble | Star Headband   | Right Footed  | Sleek Bun      | Water Splash       |
| Diego     | Lightning Dribble | Red Wristband   | Left Footed   | Spiky Hair     | Bright Floodlights |

## CLUE 1

## Multiplication facts (1-12)

We found the gear room in a mess. The thief knocked over rows of soccer balls. Let us multiply the rows to find how many balls are missing and get our first clue!

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

|     |    |     |    |     |    |    |     |     |     |     |    |     |    |     |    |     |  |  |   |
|-----|----|-----|----|-----|----|----|-----|-----|-----|-----|----|-----|----|-----|----|-----|--|--|---|
| T   |    |     |    |     |    |    |     |     |     | T   |    |     |    |     |    |     |  |  | T |
| 144 | 12 | 20  | 45 | 24  | 45 | 63 | 20  | 121 | 144 | 100 | 15 | 20  | 45 | 3   | 15 | 144 |  |  |   |
|     |    |     |    |     |    |    |     |     |     |     |    |     |    |     |    |     |  |  |   |
| 8   | 20 | 120 | 28 | 120 | 28 | 20 | 100 | 8   | 28  | 70  | 45 | 144 | 2  | 120 | 3  | 100 |  |  |   |

$12 \times 12 = \square \rightarrow \boxed{\text{T}}$

$3 \times 4 = \square \rightarrow \boxed{\text{H}}$

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

$10 \times 7 = \square \rightarrow \boxed{\text{I}}$

$4 \times 6 = \square \rightarrow \boxed{\text{U}}$

$9 \times 5 = \square \rightarrow \boxed{\text{S}}$

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

$10 \times 12 = \square \rightarrow \boxed{\text{A}}$

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

$7 \times 9 = \square \rightarrow \boxed{\text{P}}$

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

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

$1 \times 2 = \square \rightarrow \boxed{\text{B}}$

$7 \times 4 = \square \rightarrow \boxed{\text{R}}$

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

Scratch space:

## CLUE 2 Rounding

The stadium radar tracker picked up a fast blur. The digital screen only shows rounded speed numbers. Round the top speed to the nearest ten to unlock the video!

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

|      |      |      |     |      |    |     |     |     |     |      |     |     |      |     |      |      |     |
|------|------|------|-----|------|----|-----|-----|-----|-----|------|-----|-----|------|-----|------|------|-----|
| T    |      |      | T   |      |    |     |     |     |     |      |     |     |      | T   |      |      |     |
| 430  | 20   | 200  | 430 | 20   | 50 | 200 | 900 | 500 | 50  | 5000 | 500 | 200 | 3700 | 430 | 20   | 200  |     |
|      |      |      |     |      |    | T   |     |     |     |      |     |     | T    |     |      |      | T   |
| 3700 | 1700 | 1700 | 370 | 7000 | 50 | 430 | 20  | 170 | 370 | 50   | 90  | 20  | 430  | 900 | 1700 | 1700 | 430 |

Round 431 to the nearest ten  → **T**

Round 17 to the nearest ten  → **H**

Round 3,729 to the nearest hundred  → **D**

Round 89 to the nearest ten  → **G**

Round 535 to the nearest hundred  → **K**

Round 1,727 to the nearest hundred  → **O**

Round 5,229 to the nearest thousand  → **C**

Round 198 to the nearest hundred  → **E**

Round 170 to the nearest ten  → **A**

Round 919 to the nearest hundred  → **F**

Round 371 to the nearest ten  → **R**

Round 49 to the nearest ten  → **I**

Round 6,982 to the nearest thousand  → **W**

Scratch space:

## CLUE 3

## Addition

A witness saw the suspect drop some training cones. Let us add up all the orange and blue cones they left on the field to find the next lead!

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

|                                                                                    |                                                                                                |                                                                                    |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                    |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> | <div style="border: 1px solid black; width: 30px; height: 30px; display: inline-block;"></div> |
| 8061                                                                               | 5134                                                                                           | 8061                                                                               | 2817                                                                                           | 9766                                                                                           | 4428                                                                                           | 2081                                                                                           | 8377                                                                                           | 4735                                                                               | 8061                                                                                           | 2081                                                                                           | 2346                                                                                           | 5134                                                                                           | 3992                                                                                           | 4735                                                                                           | 4735                                                                                           |

  

|                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                    |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |      |      |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------|------|
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| 2081                                                                                           | 2817                                                                                           | 8594                                                                                           | 8377                                                                                           | 2817                                                                                           | 2346                                                                                           | 3992                                                                                           | 2081                                                                                           | 8377                                                                               | 4735                                                                                           | 8061                                                                                           | 3798                                                                                           | 9766                                                                                           | 4428                                                                                           | 5599                                                                                           | 8594                                                                                           | 4735 | 2283 |

$3709 + 4352 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{A}}$

$1186 + 2612 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{Y}}$

$5118 + 4648 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{E}}$

$2075 + 1917 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{I}}$

$3017 + 1411 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{R}}$

$4187 + 4407 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{O}}$

$976 + 1105 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{S}}$

$2111 + 3488 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{C}}$

$1540 + 743 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{D}}$

$1039 + 1307 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{H}}$

$2939 + 2195 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{W}}$

$2169 + 2566 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{L}}$

$1486 + 1331 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{T}}$

$5553 + 2824 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{P}}$

Scratch space:

## CLUE 4 Subtraction

The equipment manager is missing some goalie jerseys. Subtract the dirty laundry from the total jerseys to see how many the thief took!

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

|          |      |      |          |      |      |      |          |      |      |      |      |      |      |      |      |      |      |      |  |
|----------|------|------|----------|------|------|------|----------|------|------|------|------|------|------|------|------|------|------|------|--|
| <b>A</b> |      |      |          |      |      |      |          |      |      |      |      |      |      |      |      |      |      |      |  |
| 8716     | 2366 | 7005 | 7780     | 3617 | 4521 | 7538 | 6394     | 5924 | 4521 | 7941 | 8716 | 5201 | 3617 | 2095 | 8716 | 5201 | 7780 |      |  |
|          |      |      | <b>A</b> |      |      |      | <b>A</b> |      |      |      |      |      |      |      |      |      |      |      |  |
| 2995     | 7941 | 7780 | 8716     | 5924 | 6192 | 6657 | 8716     | 2995 | 3617 | 3660 | 4555 | 7941 | 1358 | 3660 | 2095 | 5201 | 5924 | 6192 |  |

$10316 - 1600 = \square \rightarrow \text{A}$

$6862 - 670 = \square \rightarrow \text{D}$

$10819 - 4895 = \square \rightarrow \text{N}$

$8058 - 520 = \square \rightarrow \text{P}$

$5565 - 3470 = \square \rightarrow \text{H}$

$10030 - 3373 = \square \rightarrow \text{W}$

$4601 - 941 = \square \rightarrow \text{E}$

$5085 - 530 = \square \rightarrow \text{F}$

$5423 - 4065 = \square \rightarrow \text{B}$

$9831 - 1890 = \square \rightarrow \text{T}$

$6307 - 3941 = \square \rightarrow \text{C}$

$7243 - 2722 = \square \rightarrow \text{Y}$

$6859 - 3864 = \square \rightarrow \text{S}$

$10148 - 4947 = \square \rightarrow \text{I}$

$11345 - 4340 = \square \rightarrow \text{U}$

$10772 - 2992 = \square \rightarrow \text{R}$

$6148 - 2531 = \square \rightarrow \text{L}$

$7017 - 623 = \square \rightarrow \text{O}$

Scratch space:

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

We found a pile of stolen energy bars. If we divide them equally among the five search teams, we can uncover the final clue!

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:**

$66 \div 6 = \boxed{\phantom{00}}$

$33 \div 11 = \boxed{\phantom{00}}$

$32 \div 8 = \boxed{\phantom{00}}$

$36 \div 6 = \boxed{\phantom{00}}$

$64 \div 8 = \boxed{\phantom{00}}$

$40 \div 8 = \boxed{\phantom{00}}$

$22 \div 11 = \boxed{\phantom{00}}$

$60 \div 5 = \boxed{\phantom{00}}$

$70 \div 7 = \boxed{\phantom{00}}$

$4 \div 4 = \boxed{\phantom{00}}$

$99 \div 11 = \boxed{\phantom{00}}$

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

1. The villain zips a perfect Phantom Pass, then waves their Glow Gloves.
2. The villain zips a perfect Phantom Pass, then flashes their Gold Shinguards.
3. The villain zips a perfect Phantom Pass, then adjusts their Star Headband.
4. The villain scores a crazy Rocket Header, then flashes their Gold Shinguards.
5. The villain zips a perfect Phantom Pass, then runs away in Neon Cleats.
6. The villain makes a Super Wall Save, then flashes their Gold Shinguards.
7. The villain performs a Lightning Dribble, then runs away in Neon Cleats.
8. The villain makes a Super Wall Save, then adjusts their Star Headband.
9. The villain scores a crazy Rocket Header, then runs away in Neon Cleats.
10. The villain scores a crazy Rocket Header, then adjusts their Star Headband.
11. The villain does a flashy Tornado Kick, then waves their Glow Gloves.
12. The villain does a flashy Tornado Kick, then flashes their Gold Shinguards.

# Answer Key

## The Golden Boot Heist

### Culprit: Pele

Lightning Dribble · Neon Cleats · Right Footed · Curly Ponytail · Water Splash

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

### Clue 1 (Multiplication facts (1-12)): "THE SUSPECT DOES NOT WEAR A RED WRISTBAND"

$12 \times 12 = 144$  (T) ·  $3 \times 4 = 12$  (H) ·  $11 \times 11 = 121$  (C) ·  $10 \times 7 = 70$  (I) ·  $4 \times 6 = 24$  (U) ·  $9 \times 5 = 45$  (S) ·  $10 \times 10 = 100$  (D) ·  $10 \times 12 = 120$  (A) ·  $1 \times 3 = 3$  (N) ·  $7 \times 9 = 63$  (P) ·  $5 \times 4 = 20$  (E) ·  $5 \times 3 = 15$  (O) ·  $1 \times 2 = 2$  (B) ·  $7 \times 4 = 28$  (R) ·  $1 \times 8 = 8$  (W)

### Clue 2 (Rounding): "THE THIEF KICKED THE DOOR WITH A RIGHT FOOT"

Round 431 to the nearest ten = 430 (T) · Round 17 to the nearest ten = 20 (H) · Round 3,729 to the nearest hundred = 3700 (D) · Round 89 to the nearest ten = 90 (G) · Round 535 to the nearest hundred = 500 (K) · Round 1,727 to the nearest hundred = 1700 (O) · Round 5,229 to the nearest thousand = 5000 (C) · Round 198 to the nearest hundred = 200 (E) · Round 170 to the nearest ten = 170 (A) · Round 919 to the nearest hundred = 900 (F) · Round 371 to the nearest ten = 370 (R) · Round 49 to the nearest ten = 50 (I) · Round 6,982 to the nearest thousand = 7000 (W)

### Clue 3 (Addition): "A WATER SPLASH WILL STOP THIS PLAYER COLD"

$3709 + 4352 = 8061$  (A) ·  $1186 + 2612 = 3798$  (Y) ·  $5118 + 4648 = 9766$  (E) ·  $2075 + 1917 = 3992$  (I) ·  $3017 + 1411 = 4428$  (R) ·  $4187 + 4407 = 8594$  (O) ·  $976 + 1105 = 2081$  (S) ·  $2111 + 3488 = 5599$  (C) ·  $1540 + 743 = 2283$  (D) ·  $1039 + 1307 = 2346$  (H) ·  $2939 + 2195 = 5134$  (W) ·  $2169 + 2566 = 4735$  (L) ·  $1486 + 1331 = 2817$  (T) ·  $5553 + 2824 = 8377$  (P)

### Clue 4 (Subtraction): "A CURLY PONYTAIL HAIR STRAND WAS LEFT BEHIND"

$10316 - 1600 = 8716$  (A) ·  $6862 - 670 = 6192$  (D) ·  $10819 - 4895 = 5924$  (N) ·  $8058 - 520 = 7538$  (P) ·  $5565 - 3470 = 2095$  (H) ·  $10030 - 3373 = 6657$  (W) ·  $4601 - 941 = 3660$  (E) ·  $5085 - 530 = 4555$  (F) ·  $5423 - 4065 = 1358$  (B) ·  $9831 - 1890 = 7941$  (T) ·  $6307 - 3941 = 2366$  (C) ·  $7243 - 2722 = 4521$  (Y) ·  $6859 - 3864 = 2995$  (S) ·  $10148 - 4947 = 5201$  (I) ·  $11345 - 4340 = 7005$  (U) ·  $10772 - 2992 = 7780$  (R) ·  $6148 - 2531 = 3617$  (L) ·  $7017 - 623 = 6394$  (O)

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

$66 \div 6 = 11$  ·  $33 \div 11 = 3$  ·  $32 \div 8 = 4$  ·  $36 \div 6 = 6$  ·  $64 \div 8 = 8$  ·  $40 \div 8 = 5$  ·  $22 \div 11 = 2$  ·  $60 \div 5 = 12$  ·  $70 \div 7 = 10$  ·  $4 \div 4 = 1$  ·  $99 \div 11 = 9$