



# The World Cup Trophy Heist

Grade 5 math · Multiplication, Fractions of a number, Order of operations, Rounding, Division · Reading level grades 5-6

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

The golden World Cup trophy has vanished from the display case hours before the final match! The security cameras were offline, but the thief left behind tactical gear and clues. You need to crack the math codes to find out which international superstar is the secret stadium saboteur.

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 stadium saboteur 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          | MATCH UNIFORM | HAIR STYLE   | TACTICAL WEAKNESS |
|--------------------|-----------------------|---------------------|---------------|--------------|-------------------|
| Cristiano Ronaldo  | Power Header          | Scented Shin Guards | Home Kit      | Short Crop   | High Pressing     |
| Erling Haaland     | Power Header          | Neon Green Cleats   | Away Kit      | Slicked Back | High Pressing     |
| Virgil van Dijk    | No Look Pass          | Golden Headband     | Home Kit      | Curly Locks  | High Pressing     |
| Lionel Messi       | Power Header          | Custom Grip Socks   | Home Kit      | Curly Locks  | High Pressing     |
| Manuel Neuer       | Bicycle Kick          | Custom Grip Socks   | Away Kit      | Short Crop   | High Pressing     |
| Casemiro           | Knuckleball Free Kick | Neon Green Cleats   | Away Kit      | Slicked Back | Slippery Turf     |
| Kevin De Bruyne    | Knuckleball Free Kick | Weighted Wristband  | Home Kit      | Curly Locks  | Slippery Turf     |
| Luka Modric        | Knuckleball Free Kick | Golden Headband     | Away Kit      | Curly Locks  | Loud Whistles     |
| Robert Lewandowski | Knuckleball Free Kick | Neon Green Cleats   | Away Kit      | Curly Locks  | Loud Whistles     |
| Kylian Mbappe      | Bicycle Kick          | Neon Green Cleats   | Home Kit      | Short Crop   | High Pressing     |
| Mohamed Salah      | No Look Pass          | Golden Headband     | Home Kit      | Slicked Back | Loud Whistles     |
| Karim Benzema      | Power Header          | Scented Shin Guards | Away Kit      | Short Crop   | Loud Whistles     |
| Vinicius Jr        | Power Header          | Custom Grip Socks   | Away Kit      | Curly Locks  | Slippery Turf     |
| Antoine Griezmann  | Bicycle Kick          | Weighted Wristband  | Away Kit      | Short Crop   | Slippery Turf     |
| Son Heung Min      | Bicycle Kick          | Golden Headband     | Away Kit      | Short Crop   | High Pressing     |
| Toni Kroos         | Power Header          | Weighted Wristband  | Away Kit      | Short Crop   | High Pressing     |
| Christian Pulisic  | Stepover Dribble      | Scented Shin Guards | Away Kit      | Short Crop   | High Pressing     |
| Alphonso Davies    | Bicycle Kick          | Weighted Wristband  | Home Kit      | Slicked Back | High Pressing     |
| Marcus Rashford    | Stepover Dribble      | Custom Grip Socks   | Away Kit      | Short Crop   | High Pressing     |
| Bukayo Saka        | Stepover Dribble      | Neon Green Cleats   | Away Kit      | Curly Locks  | High Pressing     |
| Alisson Becker     | Bicycle Kick          | Golden Headband     | Away Kit      | Slicked Back | Loud Whistles     |

### CLUE 1

The assistant coach was counting rows of practice soccer balls on the rack. To find the total quickly, they multiplied the rows by the balls in each row and found a hidden clue sheet stuck underneath.

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

Diagram illustrating a sequence of boxes and numbers. The top row contains 19 boxes, with the 1st, 9th, and 19th boxes highlighted in orange and labeled 'T'. The numbers below the top row are: 100, 32, 30, 5, 22, 25, 81, 100, 30, 56, 4, 28, 81, 30, 5, 27, 81, 100. The bottom row contains 14 boxes, with the 10th box highlighted in orange and labeled 'T'. The numbers below the bottom row are: 48, 30, 22, 4, 22, 48, 4, 24, 5, 100, 25, 22, 27, 28.

$4 \times 7 = \boxed{\phantom{00}} \rightarrow \boxed{\text{D}}$

$3 \times 9 = \boxed{\phantom{00}} \rightarrow \boxed{\text{N}}$

$4 \times 1 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{R}}$

$2 \times 11 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{A}}$

Scratch space:

CLUE 2

## Fractions of a number

The team captain was sorting through the defensive tactic cards. Only a specific fraction of the cards had the official security stamp, revealing a partial fingerprint on one of them.

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

|              |    |    |    |   |              |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|--------------|----|----|----|---|--------------|----|----|----|----|----|----|----|----|--|--|--|--|--|--|
| <div>T</div> |    |    |    |   | <div>T</div> |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 3            | 10 | 27 | 21 | 4 | 3            | 30 | 12 | 29 | 27 | 30 | 14 | 23 | 15 |  |  |  |  |  |  |

  

|    |    |    |              |              |    |    |    |   |              |    |    |    |    |    |    |    |              |   |
|----|----|----|--------------|--------------|----|----|----|---|--------------|----|----|----|----|----|----|----|--------------|---|
|    |    |    | <div>T</div> | <div>T</div> |    |    |    |   | <div>T</div> |    |    |    |    |    |    |    | <div>T</div> |   |
| 15 | 40 | 25 | 3            | 3            | 27 | 29 | 21 | 4 | 3            | 10 | 27 | 23 | 14 | 23 | 20 | 16 | 21           | 3 |

$1/5 \text{ of } 15 = \square \rightarrow \boxed{\text{T}}$

$4/5 \text{ of } 5 = \square \rightarrow \boxed{\text{N}}$

$2/5 \text{ of } 30 = \square \rightarrow \boxed{\text{U}}$

$4/8 \text{ of } 40 = \square \rightarrow \boxed{\text{Y}}$

$1/3 \text{ of } 87 = \square \rightarrow \boxed{\text{D}}$

$1/8 \text{ of } 112 = \square \rightarrow \boxed{\text{W}}$

$2/5 \text{ of } 100 = \square \rightarrow \boxed{\text{P}}$

$6/8 \text{ of } 36 = \square \rightarrow \boxed{\text{E}}$

$1/8 \text{ of } 168 = \square \rightarrow \boxed{\text{I}}$

$4/10 \text{ of } 75 = \square \rightarrow \boxed{\text{R}}$

$2/6 \text{ of } 69 = \square \rightarrow \boxed{\text{A}}$

$3/5 \text{ of } 25 = \square \rightarrow \boxed{\text{S}}$

$1/8 \text{ of } 200 = \square \rightarrow \boxed{\text{O}}$

$5/8 \text{ of } 16 = \square \rightarrow \boxed{\text{H}}$

$1/6 \text{ of } 96 = \square \rightarrow \boxed{\text{K}}$

Scratch space:

**CLUE 3**
**Order of operations**

The stadium engineer had to run a system check on the scoreboard. They followed the strict order of operations to solve the diagnostic code, which unlocked a video file showing the suspect.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| T  |    |    |    |    |    |    |    |    |    | T  |    |    |    |    |    |    |  |
| 10 | 76 | 66 | 36 | 43 | 66 | 41 | 28 | 36 | 10 | 60 | 12 | 26 | 26 | 74 | 66 | 36 |  |
|    |    |    |    |    |    | T  |    |    |    |    |    |    |    |    |    |    |  |
| 41 | 26 | 41 | 63 | 43 | 36 | 10 | 41 | 76 | 63 | 26 | 76 | 44 | 60 | 66 | 36 | 36 |  |

$4 \times 3 - 2 = \square \rightarrow \boxed{\text{T}}$

$14 + 7 \times 2 = \square \rightarrow \boxed{\text{K}}$

$10 \times 4 - 28 = \square \rightarrow \boxed{\text{U}}$

$9 \times 6 - 18 = \square \rightarrow \boxed{\text{S}}$

$39 + 4 \times 6 = \square \rightarrow \boxed{\text{I}}$

$21 + 5 \times 9 = \square \rightarrow \boxed{\text{E}}$

$10 \times 8 - 6 = \square \rightarrow \boxed{\text{L}}$

$8 \times 10 - 20 = \square \rightarrow \boxed{\text{R}}$

$12 + 8 \times 4 = \square \rightarrow \boxed{\text{P}}$

$5 \times 9 - 2 = \square \rightarrow \boxed{\text{N}}$

$10 \times 9 - 14 = \square \rightarrow \boxed{\text{H}}$

$6 \times 9 - 13 = \square \rightarrow \boxed{\text{A}}$

$8 \times 7 - 30 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

## CLUE 4 Rounding

The speed radar tracked the training shots, but the ancient screen only displays rounded numbers. Rounding the ball speeds to the nearest ten revealed a secret frequency with a radio message from the runner.

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

|     |      |      |      |      |      |      |      |      |      |      |      |      |     |     |    |     |      |      |     |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|----|-----|------|------|-----|
| V   |      |      |      |      |      |      |      |      |      |      |      |      |     |     |    |     |      |      |     |
| 130 | 2000 | 5000 | 3700 | 370  | 2900 | 1100 | 5000 | 700  | 2900 | 200  | 9000 | 5000 | 370 | 200 | 90 | 500 | 1300 | 2000 | 370 |
|     |      |      |      |      |      |      |      |      |      |      |      |      |     |     |    |     |      |      |     |
| 50  | 2000 | 5000 | 2000 | 1300 | 2000 | 900  | 700  | 1700 | 2000 | 2900 | 9000 | 110  | 300 |     |    |     |      |      |     |

Round 130 to the nearest ten  → **V**

Round 937 to the nearest hundred  → **F**

Round 176 to the nearest hundred  → **A**

Round 3,701 to the nearest hundred  → **Y**

Round 1,719 to the nearest hundred  → **B**

Round 8,603 to the nearest thousand  → **I**

Round 2,909 to the nearest hundred  → **H**

Round 673 to the nearest hundred  → **T**

Round 1,091 to the nearest hundred  → **O**

Round 369 to the nearest ten  → **S**

Round 89 to the nearest ten  → **M**

Round 51 to the nearest ten  → **W**

Round 1,552 to the nearest thousand  → **E**

Round 540 to the nearest hundred  → **P**

Round 109 to the nearest ten  → **N**

Round 1,349 to the nearest hundred  → **L**

Round 4,501 to the nearest thousand  → **R**

Round 347 to the nearest hundred  → **D**

Scratch space:

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

The team nutritionist was dividing energy bars equally among the squad. The leftover bars match a security locker code where the suspect dropped their notes.

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:**

$121 \div 11 = \boxed{\phantom{00}}$

$110 \div 11 = \boxed{\phantom{00}}$

$144 \div 12 = \boxed{\phantom{00}}$

$20 \div 10 = \boxed{\phantom{00}}$

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

$18 \div 3 = \boxed{\phantom{00}}$

$12 \div 3 = \boxed{\phantom{00}}$

$12 \div 12 = \boxed{\phantom{00}}$

$80 \div 10 = \boxed{\phantom{00}}$

$15 \div 3 = \boxed{\phantom{00}}$

$84 \div 12 = \boxed{\phantom{00}}$

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

1. The villain scaled the stadium broadcast tower, then hid the official match balls in the equipment bin.
2. The villain crept through the VIP lounge back hallway, then stashed the victory confetti in the ventilation shaft.
3. The villain snuck onto the pitch under the pitch covers, then tangled the nets on the championship goals.
4. The villain bypassed the locker room security guard, then scrambled the names on the starting lineup board.
5. The villain scaled the stadium broadcast tower, then swapped the golden trophy with a plastic replica.
6. The villain distracted the referee team with false reports, then scrambled the names on the starting lineup board.
7. The villain scaled the stadium broadcast tower, then tangled the nets on the championship goals.
8. The villain bypassed the locker room security guard, then swapped the golden trophy with a plastic replica.
9. The villain bypassed the locker room security guard, then hid the official match balls in the equipment bin.
10. The villain bypassed the locker room security guard, then stashed the victory confetti in the ventilation shaft.
11. The villain snuck onto the pitch under the pitch covers, then stashed the victory confetti in the ventilation shaft.
12. The villain snuck onto the pitch under the pitch covers, then scrambled the names on the starting lineup board.

# Answer Key

## The World Cup Trophy Heist

### Culprit: Son Heung Min

Bicycle Kick · Golden Headband · Away Kit · Short Crop · High Pressing

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

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

$10 \times 10 = 100$  (T) ·  $9 \times 9 = 81$  (O) ·  $4 \times 7 = 28$  (D) ·  $5 \times 5 = 25$  (B) ·  $4 \times 8 = 32$  (H) ·  $6 \times 5 = 30$  (E) ·  $3 \times 9 = 27$  (N) ·  $8 \times 7 = 56$  (U) ·  $5 \times 1 = 5$  (S) ·  $6 \times 8 = 48$  (W) ·  $4 \times 1 = 4$  (R) ·  $4 \times 6 = 24$  (I) ·  $2 \times 11 = 22$  (A)

#### Clue 2 (Fractions of a number): "THE INTRUDER WAS SPOTTED IN THE AWAY KIT"

$\frac{1}{5}$  of 15 = 3 (T) ·  $\frac{4}{5}$  of 5 = 4 (N) ·  $\frac{2}{5}$  of 30 = 12 (U) ·  $\frac{4}{8}$  of 40 = 20 (Y) ·  $\frac{1}{3}$  of 87 = 29 (D) ·  $\frac{1}{8}$  of 112 = 14 (W) ·  $\frac{2}{5}$  of 100 = 40 (P) ·  $\frac{6}{8}$  of 36 = 27 (E) ·  $\frac{1}{8}$  of 168 = 21 (I) ·  $\frac{4}{10}$  of 75 = 30 (R) ·  $\frac{2}{6}$  of 69 = 23 (A) ·  $\frac{3}{5}$  of 25 = 15 (S) ·  $\frac{1}{8}$  of 200 = 25 (O) ·  $\frac{5}{8}$  of 16 = 10 (H) ·  $\frac{1}{6}$  of 96 = 16 (K)

#### Clue 3 (Order of operations): "THE SNEAK STRUGGLES AGAINST A HIGH PRESS"

$4 \times 3 - 2 = 10$  (T) ·  $14 + 7 \times 2 = 28$  (K) ·  $10 \times 4 - 28 = 12$  (U) ·  $9 \times 6 - 18 = 36$  (S) ·  $39 + 4 \times 6 = 63$  (I) ·  $21 + 5 \times 9 = 66$  (E) ·  $10 \times 8 - 6 = 74$  (L) ·  $8 \times 10 - 20 = 60$  (R) ·  $12 + 8 \times 4 = 44$  (P) ·  $5 \times 9 - 2 = 43$  (N) ·  $10 \times 9 - 14 = 76$  (H) ·  $6 \times 9 - 13 = 41$  (A) ·  $8 \times 7 - 30 = 26$  (G)

#### Clue 4 (Rounding): "VERY SHORT HAIR SAMPLES WERE LEFT BEHIND"

Round 130 to the nearest ten = 130 (V) · Round 937 to the nearest hundred = 900 (F) · Round 176 to the nearest hundred = 200 (A) · Round 3,701 to the nearest hundred = 3700 (Y) · Round 1,719 to the nearest hundred = 1700 (B) · Round 8,603 to the nearest thousand = 9000 (I) · Round 2,909 to the nearest hundred = 2900 (H) · Round 673 to the nearest hundred = 700 (T) · Round 1,091 to the nearest hundred = 1100 (O) · Round 369 to the nearest ten = 370 (S) · Round 89 to the nearest ten = 90 (M) · Round 51 to the nearest ten = 50 (W) · Round 1,552 to the nearest thousand = 2000 (E) · Round 540 to the nearest hundred = 500 (P) · Round 109 to the nearest ten = 110 (N) · Round 1,349 to the nearest hundred = 1300 (L) · Round 4,501 to the nearest thousand = 5000 (R) · Round 347 to the nearest hundred = 300 (D)

#### Clue 5 (Division facts (1-12)): surviving statement is box 9 → Son Heung Min

$121 \div 11 = 11$  ·  $110 \div 11 = 10$  ·  $144 \div 12 = 12$  ·  $20 \div 10 = 2$  ·  $33 \div 11 = 3$  ·  $18 \div 3 = 6$  ·  $12 \div 3 = 4$  ·  $12 \div 12 = 1$  ·  $80 \div 10 = 8$  ·  $15 \div 3 = 5$  ·  $84 \div 12 = 7$