



# The Championship Trophy Caper

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

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

The Golden Championship Trophy has disappeared from the stadium locker room right before the big final! A mysterious rival player snuck past security, swiped the trophy, and left a trail of soccer gear behind. It is up to you and the team to examine the clues, solve the math puzzles, and catch the thief 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 rogue player 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    | SPECIAL GEAR     | PREFERRED FOOT    | HAIR STYLE        | MAIN WEAKNESS         |
|--------------------|-------------------|------------------|-------------------|-------------------|-----------------------|
| Virgil van Dijk    | rapid dribble     | neon shin guards | left-footed kick  | shaved buzzcut    | muddy field           |
| Mohamed Salah      | bicycle kick      | neon shin guards | right-footed kick | shaved buzzcut    | loud whistles         |
| Neymar Jr          | curving free kick | golden boots     | right-footed kick | shaved buzzcut    | muddy field           |
| Antoine Griezmann  | bicycle kick      | neon shin guards | right-footed kick | neon green spikes | loud whistles         |
| Bukayo Saka        | curving free kick | lucky headband   | right-footed kick | shaved buzzcut    | muddy field           |
| Robert Lewandowski | super header      | golden boots     | left-footed kick  | headband ponytail | bright stadium lights |
| Kylian Mbappe      | rapid dribble     | grip gloves      | left-footed kick  | shaved buzzcut    | muddy field           |
| Luka Modric        | diving save       | golden boots     | right-footed kick | shaved buzzcut    | muddy field           |
| Marta Vieira       | curving free kick | grip gloves      | left-footed kick  | shaved buzzcut    | bright stadium lights |
| Jack Grealish      | rapid dribble     | lucky headband   | left-footed kick  | shaved buzzcut    | bright stadium lights |
| Erling Haaland     | rapid dribble     | lucky headband   | right-footed kick | shaved buzzcut    | muddy field           |
| Son Heungmin       | diving save       | neon shin guards | right-footed kick | shaved buzzcut    | loud whistles         |
| Bruno Fernandes    | bicycle kick      | lucky headband   | left-footed kick  | shaved buzzcut    | bright stadium lights |
| Lionel Messi       | diving save       | grip gloves      | left-footed kick  | neon green spikes | bright stadium lights |
| Sam Kerr           | bicycle kick      | golden boots     | left-footed kick  | neon green spikes | muddy field           |
| Alex Morgan        | super header      | neon shin guards | left-footed kick  | neon green spikes | bright stadium lights |
| Megan Rapinoe      | super header      | smart tracker    | right-footed kick | shaved buzzcut    | muddy field           |
| Cristiano Ronaldo  | diving save       | grip gloves      | left-footed kick  | shaved buzzcut    | loud whistles         |
| Kevin De Bruyne    | rapid dribble     | grip gloves      | right-footed kick | shaved buzzcut    | muddy field           |
| Phil Foden         | curving free kick | grip gloves      | right-footed kick | headband ponytail | muddy field           |
| Marcus Rashford    | diving save       | neon shin guards | left-footed kick  | shaved buzzcut    | muddy field           |

### CLUE 1

The stadium radar screen got fuzzy and only showed rounded speeds of the mystery kicker's shots. Round the numbers to crack the first clue.

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

A number line from 0 to 10,000. The line is marked with the following numbers in boxes: 300, 7000, 230, 430, 3000, 290, 290, 9000, 3000, 1700, 90, 20, 230, 500, 1700, 20, 300, 200, 230, 9000, 170, 9000, 290, 2000, 4300, 30, 50, 7000, 230, 9000, 90, 700, 9000, 1700, 90. The number 300 is highlighted in orange and labeled with a 'T'.

Round 332 to the nearest hundred   $\rightarrow$  **T**

Round 1,744 to the nearest hundred  → **N**

Round 8,882 to the nearest thousand  → **A**

Round 174 to the nearest ten   $\rightarrow$  **R**

Round 4,256 to the nearest hundred  → **C**

Round 718 to the nearest hundred   $\rightarrow$  **B**

Round 30 to the nearest ten   $\rightarrow$  **K**

Round 24 to the nearest ten   $\rightarrow$

Round 2,784 to the nearest thousand   $\rightarrow$

Round 228 to the nearest ten   $\rightarrow$  **E**

Round 433 to the nearest ten   $\rightarrow$  **V**

Round 294 to the nearest ten   $\rightarrow$  **L**

Round 208 to the nearest hundred  → **W**

Round 483 to the nearest hundred   $\rightarrow$  **S**

Round 1,868 to the nearest thousand  → **U**

Round 46 to the nearest ten   $\rightarrow$  **Y**

Round 6,785 to the nearest thousand  → **H**

Round 90 to the nearest ten  → **D**

Scratch space:

## CLUE 2 Addition

To find where the suspect ran, we must add up all the orange cones scattered across the training pitch.

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

|          |      |      |      |          |      |      |      |          |      |      |      |      |      |      |      |      |      |  |  |
|----------|------|------|------|----------|------|------|------|----------|------|------|------|------|------|------|------|------|------|--|--|
| <b>T</b> |      |      |      |          |      |      |      |          |      |      |      |      |      |      |      |      |      |  |  |
| 4189     | 4279 | 5918 | 3966 | 4692     | 2481 | 4577 | 5918 | 8440     | 7703 | 2239 | 8787 | 6843 | 2876 | 5918 | 4866 | 2707 | 7703 |  |  |
|          |      |      |      | <b>T</b> |      |      |      | <b>T</b> |      |      |      |      |      |      |      |      |      |  |  |
| 4692     | 2481 | 9144 | 4279 | 4189     | 3689 | 6843 | 6843 | 4189     | 5918 | 8787 | 2063 | 6429 | 7703 | 2707 | 5918 | 4692 |      |  |  |

|                                                |                                                |                                                |
|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| $1804 + 2385 = \square \rightarrow \mathbf{T}$ | $1878 + 2401 = \square \rightarrow \mathbf{H}$ | $1440 + 1436 = \square \rightarrow \mathbf{N}$ |
| $4006 + 2837 = \square \rightarrow \mathbf{O}$ | $2547 + 2030 = \square \rightarrow \mathbf{M}$ | $2513 + 2179 = \square \rightarrow \mathbf{R}$ |
| $1464 + 775 = \square \rightarrow \mathbf{S}$  | $709 + 1354 = \square \rightarrow \mathbf{P}$  | $2855 + 5585 = \square \rightarrow \mathbf{W}$ |
| $3873 + 4914 = \square \rightarrow \mathbf{D}$ | $2057 + 2809 = \square \rightarrow \mathbf{B}$ | $1266 + 1215 = \square \rightarrow \mathbf{I}$ |
| $1230 + 1477 = \square \rightarrow \mathbf{Y}$ | $4091 + 1827 = \square \rightarrow \mathbf{E}$ | $5215 + 2488 = \square \rightarrow \mathbf{A}$ |
| $3597 + 2832 = \square \rightarrow \mathbf{L}$ | $5668 + 3476 = \square \rightarrow \mathbf{G}$ | $2573 + 1116 = \square \rightarrow \mathbf{F}$ |
| $1424 + 2542 = \square \rightarrow \mathbf{C}$ |                                                |                                                |

Scratch space:

## CLUE 3 Subtraction

The goalie noticed some match balls were missing from the gear locker. Subtract the stolen balls to find the next lead.

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

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| T    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4390 | 6464 | 4673 | 1436 | 1126 | 4673 | 5763 | 3753 | 5373 | 2756 | 6645 | 5763 | 5373 | 4673 | 7361 | 1436 | 6645 | 4070 | 2756 | 1436 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8445 | 1126 | 5763 | 3246 | 4861 | 8257 | 8257 | 5373 | 6611 | 4070 | 4673 | 6645 | 8257 |      |      |      |      |      |      |      |

$$9139 - 4749 = \boxed{\phantom{000}} \rightarrow \boxed{\text{T}}$$

$$2241 - 805 = \boxed{\phantom{000}} \rightarrow \boxed{\text{S}}$$

$$4805 - 132 = \boxed{\phantom{000}} \rightarrow \boxed{\text{E}}$$

$$6037 - 4911 = \boxed{\phantom{000}} \rightarrow \boxed{\text{N}}$$

$$9595 - 1338 = \boxed{\phantom{000}} \rightarrow \boxed{\text{D}}$$

$$9403 - 4030 = \boxed{\phantom{000}} \rightarrow \boxed{\text{Y}}$$

$$10426 - 3781 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{L}}$$

$$9197 - 4336 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{U}}$$

$$6942 - 1179 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{A}}$$

$$6763 - 299 = \boxed{\phantom{000}} \rightarrow \boxed{\text{H}}$$

$$6031 - 2785 = \boxed{\phantom{000}} \rightarrow \boxed{\text{M}}$$

$$9005 - 1644 = \boxed{\phantom{000}} \rightarrow \boxed{\text{R}}$$

$$7398 - 4642 = \boxed{\phantom{000}} \rightarrow \boxed{\text{P}}$$

$$5847 - 1777 = \boxed{\phantom{000}} \rightarrow \boxed{\text{I}}$$

$$4257 - 504 = \boxed{\phantom{000}} \rightarrow \boxed{\text{K}}$$

$$9128 - 2517 = \boxed{\phantom{000}} \rightarrow \boxed{\text{F}}$$

$$9178 - 733 = \boxed{\phantom{000}} \rightarrow \boxed{\text{O}}$$

Scratch space:

## Multiplication facts (1-12)

The team bus parked outside has rows of seats. Multiply the rows by the seats in each row to count the soccer squad.

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

A 2x12 grid of boxes. The first row contains the letter 'W' in the first box, followed by empty boxes with numbers 60, 50, 64, 110, 56, 42, 18, 9, 15, 18, 99, 60, and 42. The second row contains empty boxes with numbers 90, 110, 5, 5, 63, 110, 144, 15, 18, 24, 44, 64, 56, 144, 110, 44, and 50.

|    |     |    |    |     |     |     |    |    |    |    |    |    |     |     |    |    |
|----|-----|----|----|-----|-----|-----|----|----|----|----|----|----|-----|-----|----|----|
| W  |     |    |    |     |     |     |    |    |    |    |    |    |     |     |    |    |
| 20 | 60  | 50 | 64 | 110 | 56  | 42  | 18 | 9  | 15 | 18 | 99 | 60 | 42  |     |    |    |
|    |     |    |    |     |     |     |    |    |    |    |    |    |     |     |    |    |
| 90 | 110 | 5  | 5  | 63  | 110 | 144 | 15 | 18 | 24 | 44 | 64 | 56 | 144 | 110 | 44 | 50 |

$5 \times 4 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{W}}$

$$3 \times 5 = \boxed{\phantom{00}} \rightarrow \boxed{\text{H}}$$

$$5 \times 1 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{Z}}$$

$$7 \times 6 = \boxed{\phantom{00}} \rightarrow \boxed{\text{D}}$$

$5 \times 12 = \boxed{\phantom{000}} \rightarrow \boxed{\text{E}}$

$$11 \times 9 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{V}}$$

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

$11 \times 4 = \boxed{\phantom{00}} \rightarrow \boxed{\text{R}}$

$$1 \times 9 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{S}}$$

$$12 \times 2 = \boxed{\phantom{00}} \rightarrow \boxed{1}$$

$10 \times 11 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{U}}$

$$8 \times 8 = \boxed{\phantom{00}} \rightarrow \boxed{0}$$

$8 \times 7 = \boxed{\phantom{00}} \rightarrow \boxed{\text{N}}$

$2 \times 9 = \square \rightarrow \boxed{\mathbf{A}}$

$10 \times 5 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{F}}$

$$12 \times 12 = \boxed{\phantom{000}} \rightarrow \boxed{\text{T}}$$

$9 \times 10 = \boxed{\phantom{000}} \rightarrow \boxed{\mathbf{B}}$

Scratch space:

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

The coach needs to divide the energy snacks equally among the substitute players. Solve the division to get 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:**

$63 \div 7 = \boxed{\phantom{00}}$

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

$55 \div 11 = \boxed{\phantom{00}}$

$44 \div 11 = \boxed{\phantom{00}}$

$88 \div 11 = \boxed{\phantom{00}}$

$54 \div 9 = \boxed{\phantom{00}}$

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

$12 \div 6 = \boxed{\phantom{00}}$

$60 \div 6 = \boxed{\phantom{00}}$

$21 \div 3 = \boxed{\phantom{00}}$

$30 \div 10 = \boxed{\phantom{00}}$

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

1. The villain makes an amazing diving save, then flashes golden boots.
2. The villain makes an amazing diving save, then shows off neon shin guards.
3. The villain curves a wicked free kick, then adjusts grip gloves.
4. The villain blasts a bicycle kick, then flashes golden boots.
5. The villain dribbles past the defense, then adjusts grip gloves.
6. The villain dribbles past the defense, then tightens a lucky headband.
7. The villain blasts a bicycle kick, then checks a smart tracker.
8. The villain scores with a super header, then tightens a lucky headband.
9. The villain scores with a super header, then checks a smart tracker.
10. The villain dribbles past the defense, then shows off neon shin guards.
11. The villain scores with a super header, then flashes golden boots.
12. The villain curves a wicked free kick, then flashes golden boots.

# Answer Key

## The Championship Trophy Caper

### Culprit: Neymar Jr

curving free kick · golden boots · right-footed kick · shaved buzzcut · muddy field

Trail: Start 21 → Clue 1 17 → Clue 2 8 → Clue 3 5 → Clue 4 4 → Clue 5 1

#### Clue 1 (Rounding): "THE VILLAIN DOES NOT WEAR A LUCKY HEADBAND"

Round 332 to the nearest hundred = 300 (T) · Round 1,744 to the nearest hundred = 1700 (N) · Round 8,882 to the nearest thousand = 9000 (A) · Round 174 to the nearest ten = 170 (R) · Round 4,256 to the nearest hundred = 4300 (C) · Round 718 to the nearest hundred = 700 (B) · Round 30 to the nearest ten = 30 (K) · Round 24 to the nearest ten = 20 (O) · Round 2,784 to the nearest thousand = 3000 (I) · Round 228 to the nearest ten = 230 (E) · Round 433 to the nearest ten = 430 (V) · Round 294 to the nearest ten = 290 (L) · Round 208 to the nearest hundred = 200 (W) · Round 483 to the nearest hundred = 500 (S) · Round 1,868 to the nearest thousand = 2000 (U) · Round 46 to the nearest ten = 50 (Y) · Round 6,785 to the nearest thousand = 7000 (H) · Round 90 to the nearest ten = 90 (D)

#### Clue 2 (Addition): "THE CRIME WAS DONE BY A RIGHT FOOTED PLAYER"

$1804 + 2385 = 4189$  (T) ·  $1878 + 2401 = 4279$  (H) ·  $1440 + 1436 = 2876$  (N) ·  $4006 + 2837 = 6843$  (O) ·  $2547 + 2030 = 4577$  (M) ·  $2513 + 2179 = 4692$  (R) ·  $1464 + 775 = 2239$  (S) ·  $709 + 1354 = 2063$  (P) ·  $2855 + 5585 = 8440$  (W) ·  $3873 + 4914 = 8787$  (D) ·  $2057 + 2809 = 4866$  (B) ·  $1266 + 1215 = 2481$  (I) ·  $1230 + 1477 = 2707$  (Y) ·  $4091 + 1827 = 5918$  (E) ·  $5215 + 2488 = 7703$  (A) ·  $3597 + 2832 = 6429$  (L) ·  $5668 + 3476 = 9144$  (G) ·  $2573 + 1116 = 3689$  (F) ·  $1424 + 2542 = 3966$  (C)

#### Clue 3 (Subtraction): "THE SNEAKY PLAYER SLIPS ON A MUDDY FIELD"

$9139 - 4749 = 4390$  (T) ·  $2241 - 805 = 1436$  (S) ·  $4805 - 132 = 4673$  (E) ·  $6037 - 4911 = 1126$  (N) ·  $9595 - 1338 = 8257$  (D) ·  $9403 - 4030 = 5373$  (Y) ·  $10426 - 3781 = 6645$  (L) ·  $9197 - 4336 = 4861$  (U) ·  $6942 - 1179 = 5763$  (A) ·  $6763 - 299 = 6464$  (H) ·  $6031 - 2785 = 3246$  (M) ·  $9005 - 1644 = 7361$  (R) ·  $7398 - 4642 = 2756$  (P) ·  $5847 - 1777 = 4070$  (I) ·  $4257 - 504 = 3753$  (K) ·  $9128 - 2517 = 6611$  (F) ·  $9178 - 733 = 8445$  (O)

#### Clue 4 (Multiplication facts (1-12)): "WE FOUND A SHAVED BUZZCUT HAIR ON TURF"

$5 \times 4 = 20$  (W) ·  $3 \times 5 = 15$  (H) ·  $5 \times 1 = 5$  (Z) ·  $7 \times 6 = 42$  (D) ·  $5 \times 12 = 60$  (E) ·  $11 \times 9 = 99$  (V) ·  $9 \times 7 = 63$  (C) ·  $11 \times 4 = 44$  (R) ·  $1 \times 9 = 9$  (S) ·  $12 \times 2 = 24$  (I) ·  $10 \times 11 = 110$  (U) ·  $8 \times 8 = 64$  (O) ·  $8 \times 7 = 56$  (N) ·  $2 \times 9 = 18$  (A) ·  $10 \times 5 = 50$  (F) ·  $12 \times 12 = 144$  (T) ·  $9 \times 10 = 90$  (B)

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

$63 \div 7 = 9$  ·  $8 \div 8 = 1$  ·  $55 \div 11 = 5$  ·  $44 \div 11 = 4$  ·  $88 \div 11 = 8$  ·  $54 \div 9 = 6$  ·  $121 \div 11 = 11$  ·  $12 \div 6 = 2$  ·  $60 \div 6 = 10$  ·  $21 \div 3 = 7$  ·  $30 \div 10 = 3$