



# The Case of the Missing Golden Ball

Grade 2 math · Addition, Subtraction, Place value, Skip counting, Missing addends · Reading level grades 1-2

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

Oh no! The shiny Golden Ball trophy has vanished from the coach's office right before the big game. A Sneaky Striker took it! Coach needs your help to find the trophy before the final whistle blows. Follow the soccer clues!

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 Sneaky Striker 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         | STRONG FOOT  | HEADBAND       | WEAKNESS      |
|-------------|----------------|--------------------|--------------|----------------|---------------|
| Bruno       | Bicycle Kick   | Striped Wristbands | Left-footed  | Green Headband | Loud Whistles |
| Jack        | Speed Dribble  | Silver Shin Guards | Right-footed | Green Headband | Bright Sun    |
| Luis        | Rainbow Flick  | Golden Cleats      | Left-footed  | Blue Headband  | Bright Sun    |
| Harry Kane  | Speed Dribble  | Striped Wristbands | Left-footed  | Blue Headband  | Muddy Grass   |
| Jude        | Rainbow Flick  | Striped Wristbands | Right-footed | Red Headband   | Loud Whistles |
| Raheem      | Bicycle Kick   | Striped Wristbands | Left-footed  | Green Headband | Bright Sun    |
| Kevin       | Rocket Shot    | Striped Wristbands | Left-footed  | Green Headband | Loud Whistles |
| Sonny       | Speed Dribble  | Silver Shin Guards | Left-footed  | Red Headband   | Loud Whistles |
| Erling      | Rocket Shot    | Striped Wristbands | Left-footed  | Red Headband   | Loud Whistles |
| Megan       | Power Header   | Neon Laces         | Left-footed  | Green Headband | Loud Whistles |
| Bukayo      | Bicycle Kick   | Neon Laces         | Right-footed | Green Headband | Bright Sun    |
| Mo Salah    | Bicycle Kick   | Stars Socks        | Left-footed  | Green Headband | Bright Sun    |
| Marcus      | Speed Dribble  | Silver Shin Guards | Right-footed | Blue Headband  | Bright Sun    |
| Alex Morgan | Speed Dribble  | Striped Wristbands | Left-footed  | Green Headband | Bright Sun    |
| Neymar      | Bicycle Kick   | Silver Shin Guards | Left-footed  | Green Headband | Bright Sun    |
| Sadio       | Speed Dribble  | Silver Shin Guards | Left-footed  | Green Headband | Bright Sun    |
| Luka        | Rocket Shot    | Neon Laces         | Left-footed  | Blue Headband  | Muddy Grass   |
| Sam Kerr    | Speed Dribble  | Golden Cleats      | Left-footed  | Green Headband | Bright Sun    |
| Kylian      | Rocket Shot    | Striped Wristbands | Right-footed | Green Headband | Muddy Grass   |
| Virgil      | Bicycle Kick   | Neon Laces         | Left-footed  | Blue Headband  | Bright Sun    |
| Antoine     | Power Header   | Striped Wristbands | Right-footed | Blue Headband  | Muddy Grass   |

## CLUE 1 Addition

The team counts the orange cones. Add the small cones to the big cones to find the clue.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| T  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T  |
| 85 | 59 | 65 | 83 | 51 | 46 | 46 | 48 | 51 | 63 | 95 | 70 | 65 | 32 | 63 | 70 | 85 |

  

|    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|--|
|    |    |    |    |    | T  |    |    |    |    |    |  |
| 80 | 65 | 48 | 93 | 32 | 85 | 93 | 51 | 31 | 65 | 95 |  |

  

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
|    |    |    |    | T  |    |    |    |    |    |
| 80 | 93 | 51 | 32 | 85 | 25 | 48 | 63 | 95 | 32 |

|                                   |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|
| $29 + 56 = \square \rightarrow$ T | $53 + 30 = \square \rightarrow$ V | $13 + 12 = \square \rightarrow$ B |
| $39 + 31 = \square \rightarrow$ O | $34 + 46 = \square \rightarrow$ W | $45 + 48 = \square \rightarrow$ R |
| $25 + 21 = \square \rightarrow$ L | $43 + 20 = \square \rightarrow$ N | $24 + 27 = \square \rightarrow$ I |
| $39 + 26 = \square \rightarrow$ E | $24 + 24 = \square \rightarrow$ A | $13 + 19 = \square \rightarrow$ S |
| $41 + 54 = \square \rightarrow$ D | $34 + 25 = \square \rightarrow$ H | $19 + 12 = \square \rightarrow$ P |

Scratch space:

## CLUE 2

## Subtraction

Some water bottles are missing from the cooler. Subtract the empty ones to see what is left.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| T  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 68 | 35 | 19 | 47 | 65 | 60 | 60 | 17 | 65 | 57 | 42 | 65 | 52 | 42 | 78 | 29 | 57 | 60 | 87 |  |
|    |    | T  |    | T  |    |    |    |    |    |    |    | T  |    |    |    |    |    | T  |  |
| 75 | 65 | 68 | 35 | 68 | 35 | 19 | 65 | 16 | 60 | 19 | 36 | 68 | 36 | 29 | 29 | 68 |    |    |  |

$89 - 21 = \square \rightarrow \boxed{\text{T}}$

$60 - 31 = \square \rightarrow \boxed{\text{O}}$

$45 - 26 = \square \rightarrow \boxed{\text{E}}$

$67 - 7 = \square \rightarrow \boxed{\text{L}}$

$63 - 28 = \square \rightarrow \boxed{\text{H}}$

$90 - 25 = \square \rightarrow \boxed{\text{I}}$

$100 - 25 = \square \rightarrow \boxed{\text{W}}$

$55 - 39 = \square \rightarrow \boxed{\text{R}}$

$107 - 29 = \square \rightarrow \boxed{\text{S}}$

$101 - 14 = \square \rightarrow \boxed{\text{Y}}$

$69 - 17 = \square \rightarrow \boxed{\text{C}}$

$87 - 40 = \square \rightarrow \boxed{\text{V}}$

$74 - 17 = \square \rightarrow \boxed{\text{N}}$

$47 - 30 = \square \rightarrow \boxed{\text{A}}$

$58 - 22 = \square \rightarrow \boxed{\text{F}}$

$66 - 24 = \square \rightarrow \boxed{\text{K}}$

Scratch space:

### CLUE 3 Place value

The stadium scoreboard flashes bright numbers. Look at the tens place to find the secret digit.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| T  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 44 | 96 | 94 | 80 | 36 | 16 | 16 | 47 | 36 | 34 | 49 | 89 | 51 | 36 | 34 | 44 | 49 | 36 | 34 |

  

|    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|--|
| T  |    |    |    |    |    |    |    |    |    |    |    |  |
| 44 | 96 | 94 | 64 | 21 | 36 | 11 | 96 | 44 | 49 | 51 | 34 |  |

What number has 4 tens and 4 ones?  → **T**

What number has 3 tens and 4 ones?  → **N**

What number has 8 tens and 0 ones?  → **V**

What number has 4 tens and 7 ones?  → **A**

What number has 8 tens and 9 ones?  → **Q**

What number has 9 tens and 4 ones?  → **E**

What number has 6 tens and 4 ones?  → **B**

What number has 2 tens and 1 one?  → **R**

What number has 5 tens and 1 one?  → **U**

What number has 4 tens and 9 ones?  → **S**

What number has 3 tens and 6 ones?  → **I**

What number has 1 ten and 1 one?  → **G**

What number has 9 tens and 6 ones?  → **H**

What number has 1 ten and 6 ones?  → **L**

Scratch space:

## CLUE 4 Skip counting

We see lines of soccer balls on the grass. Skip count by fives to reach the end of the field.

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

|    |    |    |    |     |    |   |    |    |    |    |    |     |    |    |
|----|----|----|----|-----|----|---|----|----|----|----|----|-----|----|----|
| W  |    |    |    |     |    |   |    |    |    |    |    |     |    |    |
| 21 | 70 | 27 | 15 | 130 | 40 | 8 | 39 | 45 | 18 | 16 | 20 | 140 | 15 | 27 |

  

|    |    |    |    |    |    |    |     |    |    |    |
|----|----|----|----|----|----|----|-----|----|----|----|
|    |    |    |    |    |    |    |     |    |    |    |
| 36 | 16 | 70 | 70 | 40 | 27 | 39 | 110 | 16 | 20 | 60 |

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, \_\_, 24, 27  → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, \_\_, 10, 12  → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, \_\_, 50, 55  → **S**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, \_\_, 150, 160  → **P**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, \_\_, 120, 130  → **B**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, \_\_, 18, 21  → **O**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, \_\_, 75, 80  → **E**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, \_\_, 22, 24  → **I**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, \_\_, 18, 20  → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, \_\_, 70, 80  → **C**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, \_\_, 30, 33  → **F**

Skip-count by 10s. Fill the blank: 10, 20, 30, \_\_, 50, 60  → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, \_\_, 21, 24  → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, \_\_, 42, 45  → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, \_\_, 39, 42  → **G**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, \_\_, 140, 150  → **U**

Scratch space:

**CLUE 5****Missing addends - the last clue**

We need twelve goals to win. Find the missing number of goals we still need to score.

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:**

$2 + \underline{\quad} = 5$

$3 + \underline{\quad} = 4$

$3 + \underline{\quad} = 11$

$2 + \underline{\quad} = 12$

$9 + \underline{\quad} = 13$

$8 + \underline{\quad} = 17$

$2 + \underline{\quad} = 7$

$9 + \underline{\quad} = 21$

$10 + \underline{\quad} = 16$

$9 + \underline{\quad} = 11$

$9 + \underline{\quad} = 20$

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

1. The villain does a speed dribble, then shines their golden cleats.
2. The villain flips a rainbow flick, then taps their silver shin guards.
3. The villain does a speed dribble, then taps their silver shin guards.
4. The villain lands a power header, then runs fast in neon laces.
5. The villain fires a rocket shot, then pulls up their stars socks.
6. The villain fires a rocket shot, then taps their silver shin guards.
7. The villain performs a bicycle kick, then pulls up their stars socks.
8. The villain performs a bicycle kick, then taps their silver shin guards.
9. The villain flips a rainbow flick, then pulls up their stars socks.
10. The villain lands a power header, then adjusts their striped wristbands.
11. The villain performs a bicycle kick, then runs fast in neon laces.
12. The villain lands a power header, then taps their silver shin guards.

# Answer Key

## The Case of the Missing Golden Ball

### Culprit: Mo Salah

Bicycle Kick · Stars Socks · Left-footed · Green Headband · Bright Sun

Trail: Start 21 → Clue 1 12 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

#### Clue 1 (Addition): "THE VILLAIN DOES NOT WEAR STRIPED WRISTBANDS"

$29 + 56 = 85$  (T) ·  $53 + 30 = 83$  (V) ·  $13 + 12 = 25$  (B) ·  $39 + 31 = 70$  (O) ·  $34 + 46 = 80$  (W) ·  $45 + 48 = 93$  (R) ·  $25 + 21 = 46$  (L) ·  $43 + 20 = 63$  (N) ·  $24 + 27 = 51$  (I) ·  $39 + 26 = 65$  (E) ·  $24 + 24 = 48$  (A) ·  $13 + 19 = 32$  (S) ·  $41 + 54 = 95$  (D) ·  $34 + 25 = 59$  (H) ·  $19 + 12 = 31$  (P)

#### Clue 2 (Subtraction): "THE VILLAIN KICKS ONLY WITH THEIR LEFT FOOT"

$89 - 21 = 68$  (T) ·  $60 - 31 = 29$  (O) ·  $45 - 26 = 19$  (E) ·  $67 - 7 = 60$  (L) ·  $63 - 28 = 35$  (H) ·  $90 - 25 = 65$  (I) ·  $100 - 25 = 75$  (W) ·  $55 - 39 = 16$  (R) ·  $107 - 29 = 78$  (S) ·  $101 - 14 = 87$  (Y) ·  $69 - 17 = 52$  (C) ·  $87 - 40 = 47$  (V) ·  $74 - 17 = 57$  (N) ·  $47 - 30 = 17$  (A) ·  $58 - 22 = 36$  (F) ·  $66 - 24 = 42$  (K)

#### Clue 3 (Place value): "THE VILLAIN SQUINTS IN THE BRIGHT SUN"

What number has 4 tens and 4 ones? = 44 (T) · What number has 3 tens and 4 ones? = 34 (N) · What number has 8 tens and 0 ones? = 80 (V) · What number has 4 tens and 7 ones? = 47 (A) · What number has 8 tens and 9 ones? = 89 (Q) · What number has 9 tens and 4 ones? = 94 (E) · What number has 6 tens and 4 ones? = 64 (B) · What number has 2 tens and 1 one? = 21 (R) · What number has 5 tens and 1 one? = 51 (U) · What number has 4 tens and 9 ones? = 49 (S) · What number has 3 tens and 6 ones? = 36 (I) · What number has 1 ten and 1 one? = 11 (G) · What number has 9 tens and 6 ones? = 96 (H) · What number has 1 ten and 6 ones? = 16 (L)

#### Clue 4 (Skip counting): "WE FOUND A STRIP OF GREEN FABRIC"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, \_\_, 24, 27 = 21 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, \_\_, 10, 12 = 8 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, \_\_, 50, 55 = 45 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, \_\_, 150, 160 = 140 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, \_\_, 120, 130 = 110 (B) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, \_\_, 18, 21 = 15 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, \_\_, 75, 80 = 70 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, \_\_, 22, 24 = 20 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, \_\_, 18, 20 = 16 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, \_\_, 70, 80 = 60 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, \_\_, 30, 33 = 27 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, \_\_, 50, 60 = 40 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, \_\_, 21, 24 = 18 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, \_\_, 42, 45 = 39 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, \_\_, 39, 42 = 36 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, \_\_, 140, 150 = 130 (U)

#### Clue 5 (Missing addends): surviving statement is box 7 → Mo Salah

$2 + \underline{\quad} = 5 = 3$  ·  $3 + \underline{\quad} = 4 = 1$  ·  $3 + \underline{\quad} = 11 = 8$  ·  $2 + \underline{\quad} = 12 = 10$  ·  $9 + \underline{\quad} = 13 = 4$  ·  $8 + \underline{\quad} = 17 = 9$  ·  $2 + \underline{\quad} = 7 = 5$  ·  $9 + \underline{\quad} = 21 = 12$  ·  $10 + \underline{\quad} = 16 = 6$  ·  $9 + \underline{\quad} = 11 = 2$  ·  $9 + \underline{\quad} = 20 = 11$