



The Championship Cup Caper

Grade 4 math · Skip counting, Rounding, Multiplication, Subtraction, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

The stadium lights are bright and the crowd is roaring. But just before kickoff, the golden World Cup trophy went missing from the display case. The head coach is in a panic. A mysterious player is trying to ruin the biggest game of the decade. We need you to crack the clues, find the soccer saboteur, and save the tournament.

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 soccer 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 SOCCER MOVE	HIGH-TECH GEAR	PLAYER TYPE	HAIR STYLE	PITCH DISTRACTION
Zoe	cyclone spin	magnet gloves	boy	neon mohawk	sticky mud
Sofia	gravity chip	turbo watch	girl	gold spikes	sticky mud
Ryder	matrix defense	turbo watch	boy	gold spikes	bright camera flash
Nora	matrix defense	hologram visor	boy	neon mohawk	bright camera flash
Chloe	nitro sprint	sonar headband	girl	neon mohawk	sticky mud
Alex	cyclone spin	magnet gloves	boy	neon mohawk	bright camera flash
Luca	matrix defense	magnet gloves	boy	blue ponytail	loud whistle
Jax	nitro sprint	magnet gloves	boy	neon mohawk	loud whistle
Santi	cyclone spin	turbo watch	girl	neon mohawk	bright camera flash
Mia	thunder volley	sonar headband	boy	blue ponytail	loud whistle
Hugo	matrix defense	sonar headband	girl	blue ponytail	loud whistle
Elena	thunder volley	sonar headband	girl	gold spikes	sticky mud
Emma	gravity chip	sonar headband	boy	neon mohawk	bright camera flash
Yuki	nitro sprint	hologram visor	girl	gold spikes	loud whistle
Mason	gravity chip	magnet gloves	girl	gold spikes	loud whistle
Diego	matrix defense	magnet gloves	boy	gold spikes	sticky mud
Kofi	thunder volley	hologram visor	girl	blue ponytail	sticky mud
Zane	cyclone spin	rocket cleats	girl	blue ponytail	loud whistle
Mateo	gravity chip	sonar headband	boy	gold spikes	loud whistle
Tyler	thunder volley	rocket cleats	boy	neon mohawk	bright camera flash
Anya	gravity chip	rocket cleats	boy	neon mohawk	bright camera flash

CLUE 1

The stadium crew counted the practice soccer balls by fives. Some were missing from the rack, but the skip counting pattern left behind a clue written on a tactics board.

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

A number line from 0 to 100. The line is divided into segments by vertical tick marks. Below the line, numbers are written in each segment: 16, 6, 15, 130, 24, 26, 26, 60, 24, 9, 20, 70, 15, 100, 9, 70, 16. Above the line, there are boxes for numbers and a box for the letter 'T'.

T																
16	6	15	130	24	26	26	60	24	9	20	70	15	100	9	70	16

Below the number line, there are more boxes for numbers and a box for the letter 'T'.

14	15	60	10	60	100	70	9	60	10	6	15	60	20	25	60	9

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

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **E**

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

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 →

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **B**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **N**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **L**

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **A**

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **S**

Scratch space:

CLUE 2 Rounding

The ticket scanner display screen was damaged and could only show ticket numbers rounded to the nearest ten. We had to round the bad scans to reveal the next clue.

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

T 310000 300000 3100	T 3000 280000 310000 2800000 3100 2000 2000	 2000 28000 3000	 28000	 20000 70 30000
 300 4700000 2800000	 20000 30000			

Round 305,534 to the nearest ten thousand → **T**

Round 3,091 to the nearest thousand → **W**

Round 28,320 to the nearest thousand → **A**

Round 324,211 to the nearest hundred thousand → **H**

Round 34,640 to the nearest ten thousand → **Y**

Round 23,192 to the nearest ten thousand → **B**

Round 2,293 to the nearest thousand → **S**

Round 3,090 to the nearest hundred → **E**

Round 2,809,020 to the nearest hundred thousand → **N**

Round 70 to the nearest ten → **O**

Round 278,136 to the nearest ten thousand → **I**

Round 311 to the nearest hundred → **R**

Round 4,718,365 to the nearest hundred thousand → **U**

Scratch space:

CLUE 3
Multiplication facts (1-12)

The gear manager found empty equipment boxes arranged in equal rows and columns. Multiplying the empty spaces helped us calculate where the culprit dropped a hidden note.

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

B																		
110	70	90	25	96	11	21	100	77	24	70	100	121	120	100	60	96	24	60

B																
110	120	90	81	30	24	30	11	96	24	1	90	120	120	100	90	81

$10 \times 11 = \square \rightarrow \text{B}$

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

$11 \times 1 = \square \rightarrow \text{T}$

$7 \times 10 = \square \rightarrow \text{R}$

$6 \times 5 = \square \rightarrow \text{D}$

$11 \times 7 = \square \rightarrow \text{M}$

$11 \times 11 = \square \rightarrow \text{F}$

$7 \times 3 = \square \rightarrow \text{C}$

$3 \times 8 = \square \rightarrow \text{E}$

$5 \times 5 = \square \rightarrow \text{G}$

$10 \times 9 = \square \rightarrow \text{I}$

$10 \times 6 = \square \rightarrow \text{S}$

$9 \times 9 = \square \rightarrow \text{N}$

$12 \times 10 = \square \rightarrow \text{L}$

$1 \times 1 = \square \rightarrow \text{V}$

$12 \times 8 = \square \rightarrow \text{H}$

Scratch space:

CLUE 4

Subtraction

The giant stadium timer was counting down the minutes. Subtracting the extra stoppage time from the total gave us the secret lock code for a locker containing a scrap of paper.

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

W														
7659	3869	2116	4846	1769	3249	1562	3249	3869	4846	3249	6810	3833	3869	3249
				W										
3775	4846	1929	7855	7659	4829	1929	7855	4334	3833					

$11826 - 4167 = \square \rightarrow \text{W}$

$6321 - 2452 = \square \rightarrow \text{E}$

$5723 - 1389 = \square \rightarrow \text{I}$

$4744 - 2975 = \square \rightarrow \text{U}$

$8228 - 373 = \square \rightarrow \text{A}$

$5952 - 1123 = \square \rightarrow \text{K}$

$10738 - 3928 = \square \rightarrow \text{G}$

$5784 - 1951 = \square \rightarrow \text{R}$

$7014 - 4898 = \square \rightarrow \text{F}$

$2922 - 1360 = \square \rightarrow \text{D}$

$6546 - 4617 = \square \rightarrow \text{H}$

$8251 - 4476 = \square \rightarrow \text{M}$

$9356 - 4510 = \square \rightarrow \text{O}$

$6802 - 3553 = \square \rightarrow \text{N}$

Scratch space:

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

To open the trophy vault, we needed to know the missing number of gold medals. Solving this missing addend unlocked the final secret file.

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:

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

$1 + \underline{\quad} = 4$

$33 + \underline{\quad} = 35$

$14 + \underline{\quad} = 21$

$24 + \underline{\quad} = 32$

$25 + \underline{\quad} = 29$

$17 + \underline{\quad} = 29$

$40 + \underline{\quad} = 50$

$22 + \underline{\quad} = 33$

$35 + \underline{\quad} = 36$

$30 + \underline{\quad} = 36$

Step 2 - cross out the sentence with each answer:

1. The villain snatches the mascot costume, then hides in the team bus.
2. The villain scrambles the scoreboard computer, then dribbles past the security guards.
3. The villain snatches the mascot costume, then escapes through the player tunnel.
4. The villain snatches the mascot costume, then blends into the wave of fans.
5. The villain swaps the official match ball, then blends into the wave of fans.
6. The villain scrambles the scoreboard computer, then hides in the team bus.
7. The villain steals the championship trophy, then escapes through the player tunnel.
8. The villain steals the championship trophy, then dribbles past the security guards.
9. The villain hacks the stadium lights, then escapes through the player tunnel.
10. The villain steals the championship trophy, then leaps over the stadium gate.
11. The villain scrambles the scoreboard computer, then blends into the wave of fans.
12. The villain swaps the official match ball, then escapes through the player tunnel.

Answer Key

The Championship Cup Caper

Culprit: Tyler

thunder volley · rocket cleats · boy · neon mohawk · bright camera flash

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE VILLAIN DOES NOT WEAR A SONAR HEADBAND"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (T) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (V) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (B) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (S)

Clue 2 (Rounding): "THE WITNESS SAW A BOY RUN BY"

Round 305,534 to the nearest ten thousand = 310000 (T) · Round 3,091 to the nearest thousand = 3000 (W) · Round 28,320 to the nearest thousand = 28000 (A) · Round 324,211 to the nearest hundred thousand = 300000 (H) · Round 34,640 to the nearest ten thousand = 30000 (Y) · Round 23,192 to the nearest ten thousand = 20000 (B) · Round 2,293 to the nearest thousand = 2000 (S) · Round 3,090 to the nearest hundred = 3100 (E) · Round 2,809,020 to the nearest hundred thousand = 2800000 (N) · Round 70 to the nearest ten = 70 (O) · Round 278,136 to the nearest ten thousand = 280000 (I) · Round 311 to the nearest hundred = 300 (R) · Round 4,718,365 to the nearest hundred thousand = 4700000 (U)

Clue 3 (Multiplication facts (1-12)): "BRIGHT CAMERA FLASHES BLINDED THE VILLAIN"

$10 \times 11 = 110$ (B) · $10 \times 10 = 100$ (A) · $11 \times 1 = 11$ (T) · $7 \times 10 = 70$ (R) · $6 \times 5 = 30$ (D) · $11 \times 7 = 77$ (M) · $11 \times 11 = 121$ (F) · $7 \times 3 = 21$ (C) · $3 \times 8 = 24$ (E) · $5 \times 5 = 25$ (G) · $10 \times 9 = 90$ (I) · $10 \times 6 = 60$ (S) · $9 \times 9 = 81$ (N) · $12 \times 10 = 120$ (L) · $1 \times 1 = 1$ (V) · $12 \times 8 = 96$ (H)

Clue 4 (Subtraction): "WE FOUND NEON GREEN MOHAWK HAIR"

$11826 - 4167 = 7659$ (W) · $6321 - 2452 = 3869$ (E) · $5723 - 1389 = 4334$ (I) · $4744 - 2975 = 1769$ (U) · $8228 - 373 = 7855$ (A) · $5952 - 1123 = 4829$ (K) · $10738 - 3928 = 6810$ (G) · $5784 - 1951 = 3833$ (R) · $7014 - 4898 = 2116$ (F) · $2922 - 1360 = 1562$ (D) · $6546 - 4617 = 1929$ (H) · $8251 - 4476 = 3775$ (M) · $9356 - 4510 = 4846$ (O) · $6802 - 3553 = 3249$ (N)

Clue 5 (Missing addends): surviving statement is box 9 → Tyler

$2 + \underline{\quad} = 7 = 5$ · $1 + \underline{\quad} = 4 = 3$ · $33 + \underline{\quad} = 35 = 2$ · $14 + \underline{\quad} = 21 = 7$ · $24 + \underline{\quad} = 32 = 8$ · $25 + \underline{\quad} = 29 = 4$ · $17 + \underline{\quad} = 29 = 12$ · $40 + \underline{\quad} = 50 = 10$ · $22 + \underline{\quad} = 33 = 11$ · $35 + \underline{\quad} = 36 = 1$ · $30 + \underline{\quad} = 36 = 6$