



The Missing Championship Cup

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

Detective: _____ Date: _____

The Golden Boot Trophy vanished right before the final kick-off at Starlight Stadium! Detective, use the locker room clues to catch the suspect.

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 thief 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	CLEAT STYLE	KICKING FOOT	HAIRSTYLE	DISTRACTION
Julian Reyes	Header Goal	Silver Laced Cleats	Right-Footed	Spiky Hair	Yellow Card
Diego Santos	Rainbow Flick	Gold Studded Cleats	Left-Footed	Short Buzzcut	Yellow Card
Xena Drake	Header Goal	Gold Studded Cleats	Left-Footed	Short Buzzcut	Yellow Card
Tariq Vance	Curving Free Kick	Black Leather Cleats	Right-Footed	Spiky Hair	Loud Whistle
Hugo Silva	Curving Free Kick	Neon Orange Cleats	Right-Footed	Long Ponytail	Loud Whistle
Rita Zhao	Header Goal	Bright Blue Cleats	Left-Footed	Short Buzzcut	Loud Whistle
Mateo Gomez	Bicycle Kick	Gold Studded Cleats	Right-Footed	Spiky Hair	Loud Whistle
Kira Patel	Power Volley	Neon Orange Cleats	Right-Footed	Spiky Hair	Loud Whistle
Maya Lin	Curving Free Kick	Silver Laced Cleats	Right-Footed	Short Buzzcut	Megaphone Shout
Elena Cruz	Header Goal	Bright Blue Cleats	Right-Footed	Spiky Hair	Loud Whistle
Marcus Thorne	Bicycle Kick	Bright Blue Cleats	Right-Footed	Short Buzzcut	Yellow Card
Nora Quinn	Header Goal	Neon Orange Cleats	Right-Footed	Spiky Hair	Yellow Card
Uriah Cole	Rainbow Flick	Neon Orange Cleats	Right-Footed	Short Buzzcut	Yellow Card
Owen Diaz	Bicycle Kick	Silver Laced Cleats	Right-Footed	Short Buzzcut	Yellow Card
Will Park	Bicycle Kick	Neon Orange Cleats	Right-Footed	Short Buzzcut	Yellow Card
Vera Stone	Rainbow Flick	Gold Studded Cleats	Left-Footed	Short Buzzcut	Loud Whistle
Leo Sterling	Bicycle Kick	Black Leather Cleats	Left-Footed	Spiky Hair	Yellow Card
Pia Morales	Rainbow Flick	Gold Studded Cleats	Right-Footed	Long Ponytail	Loud Whistle
Talia Brooks	Header Goal	Neon Orange Cleats	Right-Footed	Short Buzzcut	Yellow Card
Carla Rossi	Power Volley	Bright Blue Cleats	Right-Footed	Short Buzzcut	Megaphone Shout
Chloe Bennett	Header Goal	Bright Blue Cleats	Left-Footed	Short Buzzcut	Yellow Card

CLUE 1 Addition

Coach Miller counted the extra training cones dumped near the tunnel to see who was practicing late.

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

T 7714	4249	2726	T 7714	4249	7203	2726	8776	3671	5851	2726	7762	8718	5851	T 7714	4687	2726	5704	3899
7762	7203	3124	6744	2726	3899	3124	5704	7701	2726	3671	7701	3124	2726	5704	T 7714	7762		

$4531 + 3183 = \square \rightarrow \text{T}$	$4390 + 3372 = \square \rightarrow \text{S}$	$3561 + 2290 = \square \rightarrow \text{O}$
$1386 + 1738 = \square \rightarrow \text{L}$	$2504 + 1745 = \square \rightarrow \text{H}$	$1495 + 2404 = \square \rightarrow \text{R}$
$1444 + 1282 = \square \rightarrow \text{E}$	$2341 + 3363 = \square \rightarrow \text{A}$	$1665 + 3022 = \square \rightarrow \text{W}$
$3643 + 5075 = \square \rightarrow \text{N}$	$4017 + 3186 = \square \rightarrow \text{I}$	$3465 + 4236 = \square \rightarrow \text{C}$
$3999 + 4777 = \square \rightarrow \text{F}$	$2220 + 1451 = \square \rightarrow \text{D}$	$2683 + 4061 = \square \rightarrow \text{V}$

Scratch space:

Rounding

The scoreboard monitor showed a rounded estimate of practice pass counts from the warm-up grid.

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

Round 6,792 to the nearest thousand → **T**

Round 3,695 to the nearest hundred $\rightarrow$ **D**

Round 173 to the nearest ten $\rightarrow$ **P**

Round 1,697 to the nearest hundred $\rightarrow$ **E**

Round 2,905 to the nearest hundred $\rightarrow$

Round 4,342 to the nearest hundred $\rightarrow$ **H**

Round 701 to the nearest hundred $\rightarrow$ **S**

Round 16 to the nearest ten $\rightarrow$ **C**

Round 1,323 to the nearest hundred → **G**

Round 196 to the nearest hundred $\rightarrow$ **0**

Round 129 to the nearest ten $\rightarrow$ **R**

Round 26 to the nearest ten $\rightarrow$ **K**

Round 234 to the nearest ten $\rightarrow$ **U**

Round 106 to the nearest ten $\rightarrow$ **F**

Round 3,058 to the nearest thousand $\rightarrow$ **W**

Scratch space:

CLUE 3
Subtraction

The locker manager calculated how many water bottles were taken from the bench chest.

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

A								A				A						
6378	3649	1455	7042	7042	5482	5151	1477	6378	7120	8852	6915	6378	8852	1455	1372	1948	1455	

								A			A						
5006	8119	5006	5456	1455	1477	1372	1948	6378	7042	1372	6378	1372	5482	3868	1477	1455	

$9226 - 2848 = \square \rightarrow \text{A}$

$7637 - 3988 = \square \rightarrow \text{Y}$

$9452 - 600 = \square \rightarrow \text{D}$

$7808 - 2657 = \square \rightarrow \text{W}$

$3633 - 1685 = \square \rightarrow \text{H}$

$10378 - 2259 = \square \rightarrow \text{U}$

$8054 - 3048 = \square \rightarrow \text{S}$

$7933 - 891 = \square \rightarrow \text{L}$

$9460 - 2545 = \square \rightarrow \text{M}$

$5757 - 4280 = \square \rightarrow \text{C}$

$2571 - 1116 = \square \rightarrow \text{E}$

$6612 - 2744 = \square \rightarrow \text{N}$

$6821 - 1339 = \square \rightarrow \text{O}$

$8121 - 2665 = \square \rightarrow \text{P}$

$2263 - 891 = \square \rightarrow \text{T}$

$8426 - 1306 = \square \rightarrow \text{R}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The assistant referee checked identical racks of practice balls stored beside the pitch.

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

A														A	
60	48	108	56	33	12	63	25	49	49	7	25	12	36	60	48

						A									
48	50	50	11	11	50	60	33	12	108	50	14	56	7	1	50

33	56	56	22

$10 \times 6 = \square \rightarrow$ A	$5 \times 5 = \square \rightarrow$ U	$5 \times 10 = \square \rightarrow$ E	
$3 \times 12 = \square \rightarrow$ W	$9 \times 7 = \square \rightarrow$ B	$12 \times 9 = \square \rightarrow$ H	
$11 \times 2 = \square \rightarrow$ M	$7 \times 7 = \square \rightarrow$ Z	$1 \times 11 = \square \rightarrow$ N	
$4 \times 3 = \square \rightarrow$ T	$2 \times 7 = \square \rightarrow$ L	$7 \times 1 = \square \rightarrow$ C	$7 \times 8 = \square \rightarrow$ O
$8 \times 6 = \square \rightarrow$ S	$1 \times 1 = \square \rightarrow$ K	$11 \times 3 = \square \rightarrow$ R	

Scratch space:

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

The team captain split the remaining pennants evenly among the booster club booths.

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:

$15 \div 3 = \boxed{}$

$8 \div 1 = \boxed{}$

$120 \div 12 = \boxed{}$

$99 \div 11 = \boxed{}$

$96 \div 8 = \boxed{}$

$88 \div 8 = \boxed{}$

$12 \div 2 = \boxed{}$

$30 \div 10 = \boxed{}$

$24 \div 12 = \boxed{}$

$1 \div 1 = \boxed{}$

$8 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted a power volley, then laced up neon orange cleats.
2. The villain performed a bicycle kick, then polished silver laced cleats.
3. The villain executed a rainbow flick, then put on bright blue cleats.
4. The villain executed a rainbow flick, then polished silver laced cleats.
5. The villain executed a rainbow flick, then laced up neon orange cleats.
6. The villain performed a bicycle kick, then tied up black leather cleats.
7. The villain performed a bicycle kick, then laced up neon orange cleats.
8. The villain performed a bicycle kick, then put on bright blue cleats.
9. The villain scored with a header goal, then strapped on gold studded cleats.
10. The villain scored with a header goal, then laced up neon orange cleats.
11. The villain blasted a power volley, then polished silver laced cleats.
12. The villain scored with a header goal, then polished silver laced cleats.

Answer Key

The Missing Championship Cup

Culprit: Will Park

Bicycle Kick · Neon Orange Cleats · Right-Footed · Short Buzzcut · Yellow Card

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT WEAR SILVER LACED CLEATS"

$4531 + 3183 = 7714$ (T) · $4390 + 3372 = 7762$ (S) · $3561 + 2290 = 5851$ (O) · $1386 + 1738 = 3124$ (L) · $2504 + 1745 = 4249$ (H) · $1495 + 2404 = 3899$ (R) · $1444 + 1282 = 2726$ (E) · $2341 + 3363 = 5704$ (A) · $1665 + 3022 = 4687$ (W) · $3643 + 5075 = 8718$ (N) · $4017 + 3186 = 7203$ (I) · $3465 + 4236 = 7701$ (C) · $3999 + 4777 = 8776$ (F) · $2220 + 1451 = 3671$ (D) · $2683 + 4061 = 6744$ (V)

Clue 2 (Rounding): "THE SUSPECT KICKED WITH THEIR RIGHT FOOT"

Round 6,792 to the nearest thousand = 7000 (T) · Round 3,695 to the nearest hundred = 3700 (D) · Round 173 to the nearest ten = 170 (P) · Round 1,697 to the nearest hundred = 1700 (E) · Round 2,905 to the nearest hundred = 2900 (I) · Round 4,342 to the nearest hundred = 4300 (H) · Round 701 to the nearest hundred = 700 (S) · Round 16 to the nearest ten = 20 (C) · Round 1,323 to the nearest hundred = 1300 (G) · Round 196 to the nearest hundred = 200 (O) · Round 129 to the nearest ten = 130 (R) · Round 26 to the nearest ten = 30 (K) · Round 234 to the nearest ten = 230 (U) · Round 106 to the nearest ten = 110 (F) · Round 3,058 to the nearest thousand = 3000 (W)

Clue 3 (Subtraction): "A YELLOW CARD MADE THE SUSPECT HALT AT ONCE"

$9226 - 2848 = 6378$ (A) · $7637 - 3988 = 3649$ (Y) · $9452 - 600 = 8852$ (D) · $7808 - 2657 = 5151$ (W) · $3633 - 1685 = 1948$ (H) · $10378 - 2259 = 8119$ (U) · $8054 - 3048 = 5006$ (S) · $7933 - 891 = 7042$ (L) · $9460 - 2545 = 6915$ (M) · $5757 - 4280 = 1477$ (C) · $2571 - 1116 = 1455$ (E) · $6612 - 2744 = 3868$ (N) · $6821 - 1339 = 5482$ (O) · $8121 - 2665 = 5456$ (P) · $2263 - 891 = 1372$ (T) · $8426 - 1306 = 7120$ (R)

Clue 4 (Multiplication facts (1-12)): "A SHORT BUZZCUT WAS SEEN NEAR THE LOCKER ROOM"

$10 \times 6 = 60$ (A) · $5 \times 5 = 25$ (U) · $5 \times 10 = 50$ (E) · $3 \times 12 = 36$ (W) · $9 \times 7 = 63$ (B) · $12 \times 9 = 108$ (H) · $11 \times 2 = 22$ (M) · $7 \times 7 = 49$ (Z) · $1 \times 11 = 11$ (N) · $4 \times 3 = 12$ (T) · $2 \times 7 = 14$ (L) · $7 \times 1 = 7$ (C) · $7 \times 8 = 56$ (O) · $8 \times 6 = 48$ (S) · $1 \times 1 = 1$ (K) · $11 \times 3 = 33$ (R)

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

$15 \div 3 = 5$ · $8 \div 1 = 8$ · $120 \div 12 = 10$ · $99 \div 11 = 9$ · $96 \div 8 = 12$ · $88 \div 8 = 11$ · $12 \div 2 = 6$ · $30 \div 10 = 3$ · $24 \div 12 = 2$ · $1 \div 1 = 1$ · $8 \div 2 = 4$