



The Missing Championship Trophy

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

Detective: _____ Date: _____

The championship match is about to start, but the golden trophy has vanished from the locker room! A mysterious player left muddy cleats and a strange note behind. We need to crack the math codes and find the Soccer Sneak 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 The Soccer Sneak 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	SUPER GEAR	PREFERRED FOOT	HAIR STYLING	MATCH WEAKNESS
Megan	Rainbow Flick	Red Headband	Left-footed	Curly Afro	Sluggish in Mud
Erling	Bicycle Kick	GPS Vest	Right-footed	Spiky Mohawk	Sluggish in Mud
Marcus	Knuckleball	GPS Vest	Left-footed	Curly Afro	Distracted by Dogs
Neymar	Bicycle Kick	Neon Cleats	Left-footed	Curly Afro	Gets Dizzy Spinning
Alex	Bicycle Kick	Golden Gloves	Left-footed	Curly Afro	Sluggish in Mud
Sonny	Banana Shot	Red Headband	Left-footed	Spiky Mohawk	Distracted by Dogs
Chloe	Bicycle Kick	Grip Socks	Left-footed	Curly Afro	Sluggish in Mud
Bukayo	Bicycle Kick	Grip Socks	Right-footed	Braided Ponytail	Distracted by Dogs
Alisson	Knuckleball	Golden Gloves	Left-footed	Braided Ponytail	Sluggish in Mud
Luka	Bicycle Kick	GPS Vest	Left-footed	Curly Afro	Sluggish in Mud
Lionel	Banana Shot	GPS Vest	Right-footed	Spiky Mohawk	Gets Dizzy Spinning
Marta	Power Header	Golden Gloves	Left-footed	Spiky Mohawk	Distracted by Dogs
Lucy	Power Header	Neon Cleats	Left-footed	Curly Afro	Sluggish in Mud
Hugo	Power Header	Neon Cleats	Right-footed	Spiky Mohawk	Distracted by Dogs
Wendy	Rainbow Flick	Grip Socks	Left-footed	Curly Afro	Gets Dizzy Spinning
Kylian	Knuckleball	Grip Socks	Right-footed	Curly Afro	Sluggish in Mud
Kevin	Bicycle Kick	Red Headband	Left-footed	Spiky Mohawk	Sluggish in Mud
Sam	Bicycle Kick	GPS Vest	Left-footed	Spiky Mohawk	Sluggish in Mud
Mo	Rainbow Flick	Neon Cleats	Right-footed	Curly Afro	Sluggish in Mud
Rose	Power Header	Red Headband	Left-footed	Curly Afro	Gets Dizzy Spinning
Leo	Banana Shot	Golden Gloves	Left-footed	Braided Ponytail	Gets Dizzy Spinning

CLUE 1 Place value

The stadium scoreboard malfunctioned and displayed values in the thousands, hundreds, and tens. Digging into the digits helped us unlock the first clue.

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

Diagram illustrating the multiplication of 10 by 40 using a grid of boxes. The top row contains 18 boxes, and the bottom row contains 12 boxes. The boxes are arranged in two rows, with the top row having 18 boxes and the bottom row having 12 boxes. The boxes are labeled with numbers below them. The top row labels are: 40, 500, 6000, 8000, 9000, 2000, 2000, 90, 9000, 1000, 200, 70, 6000, 100, 1000, 70, 40. The bottom row labels are: 700, 6000, 90, 900, 90, 800, 3000, 100, 8000, 6000, 100, 40. The boxes are arranged in two rows, with the top row having 18 boxes and the bottom row having 12 boxes. The boxes are labeled with numbers below them. The top row labels are: 40, 500, 6000, 8000, 9000, 2000, 2000, 90, 9000, 1000, 200, 70, 6000, 100, 1000, 70, 40. The bottom row labels are: 700, 6000, 90, 900, 90, 800, 3000, 100, 8000, 6000, 100, 40. The boxes are arranged in two rows, with the top row having 18 boxes and the bottom row having 12 boxes. The boxes are labeled with numbers below them. The top row labels are: 40, 500, 6000, 8000, 9000, 2000, 2000, 90, 9000, 1000, 200, 70, 6000, 100, 1000, 70, 40. The bottom row labels are: 700, 6000, 90, 900, 90, 800, 3000, 100, 8000, 6000, 100, 40.

What is the value of the 4 in 8,746? → **T**

What is the value of the 1 in 133? → **S**

What is the value of the 1 in 1,583? → **N**

What is the value of the 9 in 19,006? → **I**

What is the value of the 9 in 914? → **R**

What is the value of the 8 in 8,920? → **V**

What is the value of the 9 in 6,598? → **A**

What is the value of the 7 in 742? → **W**

What is the value of the 6 in 46,129? → **E**

What is the value of the 8 in 3,864? → **G**

What is the value of the 5 in 584? → **H**

What is the value of the 2 in 4,283? → **D**

What is the value of the 2 in 62,143? → **L**

What is the value of the 3 in 3,097? → **P**

What is the value of the 7 in 874? →

Scratch space:

CLUE 2

The speed radar gun only gives rounded numbers for the shots. We rounded the ball speed to the nearest ten to get our next clue.

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

Round 2,863 to the nearest hundred $\rightarrow$ **T**

Round 114 to the nearest ten $\rightarrow$ **H**

Round 21 to the nearest ten $\rightarrow$ **S**

Round 7,146 to the nearest thousand $\rightarrow$ **F**

Round 1,652 to the nearest hundred → **C**

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

Round 4,979 to the nearest thousand → **M**

Round 341 to the nearest hundred $\rightarrow$ **D**

Round 427 to the nearest ten $\rightarrow$

Round 164 to the nearest hundred $\rightarrow$ **P**

Round 27 to the nearest ten $\rightarrow$ **K**

Round 371 to the nearest ten $\rightarrow$ **L**

Round 288 to the nearest ten $\rightarrow$

Round 470 to the nearest hundred $\rightarrow$ **R**

Round 51 to the nearest ten → **B**

Round 228 to the nearest ten → **A**

Round 675 to the nearest hundred → **N**

Round 87 to the nearest ten → **E**

Round 2,312 to the nearest hundred → **W**

Scratch space:

CLUE 3 Addition

We need to tally all the water bottles left on the practice field. Adding the cases together revealed a clue left under the bench.

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

T															
9164	4516	3663	5891	9564	3663	6746	9882	5201	5008	4368	6746	5201	3663	9104	

									T					
5891	4368	5585	5008	5008	3663	4155	5585	9564	9164	4516	3663	7647	7617	4155

$6200 + 2964 = \square \rightarrow \text{T}$	$2114 + 3471 = \square \rightarrow \text{I}$	$1633 + 2735 = \square \rightarrow \text{L}$
$3183 + 1825 = \square \rightarrow \text{P}$	$2685 + 1831 = \square \rightarrow \text{H}$	$5681 + 3883 = \square \rightarrow \text{N}$
$5018 + 2629 = \square \rightarrow \text{M}$	$3255 + 3491 = \square \rightarrow \text{A}$	$4752 + 4352 = \square \rightarrow \text{R}$
$1730 + 1933 = \square \rightarrow \text{E}$	$3116 + 6766 = \square \rightarrow \text{K}$	$2121 + 3770 = \square \rightarrow \text{S}$
$2717 + 4900 = \square \rightarrow \text{U}$	$1453 + 2702 = \square \rightarrow \text{D}$	$3123 + 2078 = \square \rightarrow \text{Y}$

Scratch space:

CLUE 4 Subtraction

The team had fifty soccer balls, but some were kicked over the fence. Subtracting the lost balls led us directly to a hidden note.

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

W																	
6936	3169	2384	5854	4252	8601	3590	1332	8119	8583	8471	7298	8119	3522	4252	8929	3514	5854 8601

8119	7298	3169	8471	5854	1332	3514	1434	5854	3886 8119

$10231 - 3295 = \boxed{} \rightarrow \boxed{W}$

$6966 - 3444 = \boxed{} \rightarrow \boxed{C}$

$6276 - 2762 = \boxed{} \rightarrow \boxed{L}$

$5639 - 4205 = \boxed{} \rightarrow \boxed{P}$

$11842 - 3723 = \boxed{} \rightarrow \boxed{T}$

$10295 - 4441 = \boxed{} \rightarrow \boxed{O}$

$6942 - 2690 = \boxed{} \rightarrow \boxed{U}$

$3772 - 2440 = \boxed{} \rightarrow \boxed{A}$

$6735 - 4351 = \boxed{} \rightarrow \boxed{F}$

$7471 - 3881 = \boxed{} \rightarrow \boxed{D}$

$6708 - 2822 = \boxed{} \rightarrow \boxed{S}$

$11440 - 2839 = \boxed{} \rightarrow \boxed{N}$

$12640 - 3711 = \boxed{} \rightarrow \boxed{R}$

$12587 - 4004 = \boxed{} \rightarrow \boxed{I}$

$5078 - 1909 = \boxed{} \rightarrow \boxed{E}$

$8487 - 16 = \boxed{} \rightarrow \boxed{G}$

$8295 - 997 = \boxed{} \rightarrow \boxed{H}$

Scratch space:

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

We shared a giant pack of energy orange slices equally among the players. Dividing them up solved the final mystery of the day.

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:

$66 \div 6 = \boxed{}$

$3 \div 1 = \boxed{}$

$77 \div 11 = \boxed{}$

$45 \div 9 = \boxed{}$

$6 \div 1 = \boxed{}$

$9 \div 9 = \boxed{}$

$28 \div 7 = \boxed{}$

$72 \div 8 = \boxed{}$

$50 \div 5 = \boxed{}$

$8 \div 4 = \boxed{}$

$96 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain bends a wild banana shot, then makes a save with golden gloves.
2. The villain blasts a curving knuckleball shot, then makes a save with golden gloves.
3. The villain scores with a swift bicycle kick, then stops on a dime in grip socks.
4. The villain bends a wild banana shot, then dashes away in glowing neon cleats.
5. The villain bends a wild banana shot, then tracks their speed on a gps vest.
6. The villain blasts a curving knuckleball shot, then tracks their speed on a gps vest.
7. The villain smashes a massive power header, then dashes away in glowing neon cleats.
8. The villain blasts a curving knuckleball shot, then dashes away in glowing neon cleats.
9. The villain smashes a massive power header, then makes a save with golden gloves.
10. The villain scoops the ball in a rainbow flick, then dashes away in glowing neon cleats.
11. The villain scores with a swift bicycle kick, then makes a save with golden gloves.
12. The villain scoops the ball in a rainbow flick, then sweats into a bright red headband.

Answer Key

The Missing Championship Trophy

Culprit: Megan

Rainbow Flick · Red Headband · Left-footed · Curly Afro · Sluggish in Mud

Trail: Start 21 → Clue 1 16 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT WEAR A GPS VEST"

What is the value of the 4 in 8,746? = 40 (T) · What is the value of the 1 in 133? = 100 (S) · What is the value of the 1 in 1,583? = 1000 (N) · What is the value of the 9 in 19,006? = 9000 (I) · What is the value of the 9 in 914? = 900 (R) · What is the value of the 8 in 8,920? = 8000 (V) · What is the value of the 9 in 6,598? = 90 (A) · What is the value of the 7 in 742? = 700 (W) · What is the value of the 6 in 46,129? = 6000 (E) · What is the value of the 8 in 3,864? = 800 (G) · What is the value of the 5 in 584? = 500 (H) · What is the value of the 2 in 4,283? = 200 (D) · What is the value of the 2 in 62,143? = 2000 (L) · What is the value of the 3 in 3,097? = 3000 (P) · What is the value of the 7 in 874? = 70 (O)

Clue 2 (Rounding): "THE KICK PRINT WAS MADE BY A LEFT FOOT"

Round 2,863 to the nearest hundred = 2900 (T) · Round 114 to the nearest ten = 110 (H) · Round 21 to the nearest ten = 20 (S) · Round 7,146 to the nearest thousand = 7000 (F) · Round 1,652 to the nearest hundred = 1700 (C) · Round 173 to the nearest ten = 170 (Y) · Round 4,979 to the nearest thousand = 5000 (M) · Round 341 to the nearest hundred = 300 (D) · Round 427 to the nearest ten = 430 (I) · Round 164 to the nearest hundred = 200 (P) · Round 27 to the nearest ten = 30 (K) · Round 371 to the nearest ten = 370 (L) · Round 288 to the nearest ten = 290 (O) · Round 470 to the nearest hundred = 500 (R) · Round 51 to the nearest ten = 50 (B) · Round 228 to the nearest ten = 230 (A) · Round 675 to the nearest hundred = 700 (N) · Round 87 to the nearest ten = 90 (E) · Round 2,312 to the nearest hundred = 2300 (W)

Clue 3 (Addition): "THE SNEAKY PLAYER SLIPPED IN THE MUD"

$6200 + 2964 = 9164$ (T) · $2114 + 3471 = 5585$ (I) · $1633 + 2735 = 4368$ (L) · $3183 + 1825 = 5008$ (P) · $2685 + 1831 = 4516$ (H) · $5681 + 3883 = 9564$ (N) · $5018 + 2629 = 7647$ (M) · $3255 + 3491 = 6746$ (A) · $4752 + 4352 = 9104$ (R) · $1730 + 1933 = 3663$ (E) · $3116 + 6766 = 9882$ (K) · $2121 + 3770 = 5891$ (S) · $2717 + 4900 = 7617$ (U) · $1453 + 2702 = 4155$ (D) · $3123 + 2078 = 5201$ (Y)

Clue 4 (Subtraction): "WE FOUND A TIGHT CURL ON THE GOALPOST"

$10231 - 3295 = 6936$ (W) · $6966 - 3444 = 3522$ (C) · $6276 - 2762 = 3514$ (L) · $5639 - 4205 = 1434$ (P) · $11842 - 3723 = 8119$ (T) · $10295 - 4441 = 5854$ (O) · $6942 - 2690 = 4252$ (U) · $3772 - 2440 = 1332$ (A) · $6735 - 4351 = 2384$ (F) · $7471 - 3881 = 3590$ (D) · $6708 - 2822 = 3886$ (S) · $11440 - 2839 = 8601$ (N) · $12640 - 3711 = 8929$ (R) · $12587 - 4004 = 8583$ (I) · $5078 - 1909 = 3169$ (E) · $8487 - 16 = 8471$ (G) · $8295 - 997 = 7298$ (H)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Megan

$66 \div 6 = 11$ · $3 \div 1 = 3$ · $77 \div 11 = 7$ · $45 \div 9 = 5$ · $6 \div 1 = 6$ · $9 \div 9 = 1$ · $28 \div 7 = 4$ · $72 \div 8 = 9$ · $50 \div 5 = 10$ · $8 \div 4 = 2$ · $96 \div 12 = 8$