



The Mystery of the Missing Golden Trophy

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

Detective: _____ Date: _____

Oh no! The Golden Championship Trophy has disappeared right from the referee's locker room just hours before the kickoff! The Sneaky Striker was seen running away from the field. Use your detective skills and solve these math clues to find out who did it before the whistle blows!

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	SOCCER SPECIALTY	SIGNATURE GEAR	PREFERRED FOOT	HAIR STYLE	DISTRACTION
Erling	Mega Header	Sticky Gloves	Left-Footed Player	Fiery Red Mohawk	Giant Orange Cones
Gianluigi	Mega Header	Sticky Gloves	Right-Footed Player	Bright Blue Ponytail	Giant Orange Cones
Jude	Power Slide Tackle	Super Sock Tape	Right-Footed Player	Fiery Red Mohawk	Squeaky Mascot Toys
Kevin	Laser Pass	Golden Cleats	Right-Footed Player	Bright Blue Ponytail	Squeaky Mascot Toys
Antoine	Bicycle Kick	Sticky Gloves	Right-Footed Player	Fiery Red Mohawk	Squeaky Mascot Toys
Hugo	Curving Free Kick	Super Sock Tape	Right-Footed Player	Bright Blue Ponytail	Shiny Brass Whistles
Cristiano	Laser Pass	Turbo Shin Guards	Right-Footed Player	Bright Blue Ponytail	Shiny Brass Whistles
Neymar	Bicycle Kick	Sticky Gloves	Left-Footed Player	Spiky Green Hair	Squeaky Mascot Toys
Ederson	Power Slide Tackle	Golden Cleats	Left-Footed Player	Bright Blue Ponytail	Squeaky Mascot Toys
Son	Laser Pass	Turbo Shin Guards	Right-Footed Player	Spiky Green Hair	Shiny Brass Whistles
Jordan	Laser Pass	Sticky Gloves	Right-Footed Player	Bright Blue Ponytail	Squeaky Mascot Toys
Luka	Bicycle Kick	Golden Cleats	Left-Footed Player	Fiery Red Mohawk	Giant Orange Cones
Alisson	Power Slide Tackle	Super Sock Tape	Left-Footed Player	Bright Blue Ponytail	Shiny Brass Whistles
Mohamed	Mega Header	Turbo Shin Guards	Right-Footed Player	Bright Blue Ponytail	Shiny Brass Whistles
Bukayo	Power Slide Tackle	Neon Headband	Right-Footed Player	Bright Blue Ponytail	Giant Orange Cones
Robert	Curving Free Kick	Super Sock Tape	Right-Footed Player	Bright Blue Ponytail	Squeaky Mascot Toys
Kylian	Bicycle Kick	Turbo Shin Guards	Right-Footed Player	Bright Blue Ponytail	Squeaky Mascot Toys
Marcus	Bicycle Kick	Neon Headband	Right-Footed Player	Bright Blue Ponytail	Squeaky Mascot Toys
Bruno	Curving Free Kick	Turbo Shin Guards	Right-Footed Player	Spiky Green Hair	Squeaky Mascot Toys
Lionel	Curving Free Kick	Sticky Gloves	Left-Footed Player	Bright Blue Ponytail	Shiny Brass Whistles
Manuel	Bicycle Kick	Sticky Gloves	Right-Footed Player	Spiky Green Hair	Squeaky Mascot Toys

CLUE 1
Multiplication facts (1-12)

Coach wants to count the boxes of training soccer balls stacked in the locker room. They are arranged in neat rows and columns.

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

T																T
11	100	22	18	5	48	48	54	5	6	10	4	22	70	6	4	11
21	22	54	90	70	16	81	22	90	70	4	12	33	T			

$1 \times 11 = \square \rightarrow$ T	$9 \times 9 = \square \rightarrow$ P	$1 \times 5 = \square \rightarrow$ I	
$10 \times 10 = \square \rightarrow$ H	$10 \times 7 = \square \rightarrow$ S	$3 \times 2 = \square \rightarrow$ N	
$8 \times 2 = \square \rightarrow$ U	$2 \times 2 = \square \rightarrow$ O	$3 \times 4 = \square \rightarrow$ C	$9 \times 10 = \square \rightarrow$ R
$9 \times 6 = \square \rightarrow$ A	$3 \times 6 = \square \rightarrow$ V	$5 \times 2 = \square \rightarrow$ D	$2 \times 11 = \square \rightarrow$ E
$3 \times 11 = \square \rightarrow$ K	$6 \times 8 = \square \rightarrow$ L	$3 \times 7 = \square \rightarrow$ W	

Scratch space:

CLUE 2 Rounding

The stadium scoreboard got hit by a stray ball and now it only displays rounded numbers. Round the fan attendance to find the clue.

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

R																		R
30	2000	1300	2300	110	230	2900	2900	110	300	200	430	70	300	20	7000	300	30	
	R																	
370	30	2000	70	110	9000	20	430	2900	70	230	2000	300	1700	200				

Round 26 to the nearest ten → **R**

Round 8,933 to the nearest thousand → **W**

Round 232 to the nearest ten → **F**

Round 2,290 to the nearest hundred → **H**

Round 74 to the nearest ten → **N**

Round 2,916 to the nearest hundred → **O**

Round 212 to the nearest hundred → **D**

Round 106 to the nearest ten → **T**

Round 19 to the nearest ten → **A**

Round 277 to the nearest hundred → **E**

Round 1,349 to the nearest hundred → **G**

Round 7,352 to the nearest thousand → **K**

Round 431 to the nearest ten → **S**

Round 1,802 to the nearest thousand → **I**

Round 373 to the nearest ten → **P**

Round 1,676 to the nearest hundred → **L**

Scratch space:

CLUE 3

We need to make sure we have enough jerseys and cleats. Let us add up all the gear in our equipment bags to get a total.

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

Diagram illustrating a sequence of numbers (7779, 7001, 8984, 8571, 9865, 5862, 8984, 7752, 5936, 3088, 4743, 7752, 8571, 7108, 7404, 7779, 7779, 7404, 3088) arranged in two rows. The top row contains 18 boxes, and the bottom row contains 12 boxes. Some boxes are shaded orange and labeled with a 'T', indicating they are 'true' or 'known' values. The numbers below the boxes are: Top row: 7779, 7001, 8984, 8571, 9865, 5862, 8984, 7752, 5936, 3088, 4743, 7752, 8571, 7108, 7404, 7779, 7779, 7404, 3088. Bottom row: 2532, 4930, 8571, 7779, 4518, 7752, 7108, 7779, 8984, 2532, 7779, 7001, 8984, 4743.

$$3556 + 4223 = \boxed{} \rightarrow \boxed{\text{T}}$$

$6139 + 2845 = \boxed{} \rightarrow \boxed{\text{E}}$

$$2175 + 3687 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$2123 + 3813 = \boxed{} \rightarrow \boxed{\text{K}}$$

$1202 + 1886 = \boxed{} \rightarrow \boxed{\mathbf{Y}}$

$3856 + 3896 = \boxed{} \rightarrow \boxed{\text{A}}$

$$1882 + 2861 = \boxed{} \rightarrow \boxed{\text{M}}$$

$1652 + 880 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$$2399 + 2531 = \boxed{} \rightarrow \boxed{}$$

$$2990 + 4011 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$3965 + 3439 = \boxed{} \rightarrow \boxed{0}$$

$$3145 + 6720 = \boxed{} \rightarrow \boxed{\mathbf{Q}}$$

$$4402 + 2706 = \boxed{} \rightarrow \mathbf{C}$$

$$1390 + 3128 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$3887 + 4684 = \boxed{} \rightarrow \boxed{\text{S}}$$

Scratch space:

CLUE 4 Subtraction

A sneaky puppy ran onto the practice field and popped some balls. We must subtract the popped balls to see what we have left.

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

W																
8238	8945	3961	7754	7342	2539	8988	2017	8149	5204	2724	3966	5900	2017	4518	7342	8945

3966	1103	5204	8149	7754	2539	5900	3966	8945	2017	8945	2539	7181	3966

$11947 - 3709 = \square \rightarrow \boxed{\text{W}}$

$10828 - 3074 = \square \rightarrow \boxed{\text{O}}$

$10996 - 3654 = \square \rightarrow \boxed{\text{U}}$

$5245 - 1284 = \square \rightarrow \boxed{\text{F}}$

$10047 - 4843 = \square \rightarrow \boxed{\text{I}}$

$7281 - 4557 = \square \rightarrow \boxed{\text{G}}$

$4977 - 2438 = \square \rightarrow \boxed{\text{N}}$

$12366 - 3421 = \square \rightarrow \boxed{\text{E}}$

$3183 - 2080 = \square \rightarrow \boxed{\text{A}}$

$10570 - 2421 = \square \rightarrow \boxed{\text{R}}$

$10736 - 4836 = \square \rightarrow \boxed{\text{T}}$

$8375 - 4409 = \square \rightarrow \boxed{\text{H}}$

$10672 - 1684 = \square \rightarrow \boxed{\text{D}}$

$8598 - 4080 = \square \rightarrow \boxed{\text{L}}$

$4298 - 2281 = \square \rightarrow \boxed{\text{B}}$

$9736 - 2555 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

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

The coaches need to split all the young players into equal scrimmage teams. Divide them up so everyone gets to play.

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:

$15 \div 3 = \boxed{}$

$44 \div 11 = \boxed{}$

$4 \div 2 = \boxed{}$

$4 \div 4 = \boxed{}$

$108 \div 9 = \boxed{}$

$30 \div 5 = \boxed{}$

$18 \div 2 = \boxed{}$

$22 \div 2 = \boxed{}$

$50 \div 5 = \boxed{}$

$56 \div 8 = \boxed{}$

$56 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shot a blasting bicycle kick, then caught the ball with sticky gloves.
2. The villain shot a blasting bicycle kick, then blocked a shot with turbo shin guards.
3. The villain fired a lightning-fast laser pass, then ran fast in golden cleats.
4. The villain shot a blasting bicycle kick, then flashed a neon headband.
5. The villain fired a lightning-fast laser pass, then caught the ball with sticky gloves.
6. The villain hit an unstoppable mega header, then caught the ball with sticky gloves.
7. The villain slid in with a power slide tackle, then ran fast in golden cleats.
8. The villain curled a beautiful free kick, then ran fast in golden cleats.
9. The villain shot a blasting bicycle kick, then ran fast in golden cleats.
10. The villain hit an unstoppable mega header, then flashed a neon headband.
11. The villain hit an unstoppable mega header, then ran fast in golden cleats.
12. The villain slid in with a power slide tackle, then caught the ball with sticky gloves.

Answer Key

The Mystery of the Missing Golden Trophy

Culprit: Kevin

Laser Pass · Golden Cleats · Right-Footed Player · Bright Blue Ponytail · Squeaky Mascot Toys

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT WEAR SUPER SOCK TAPE"

$1 \times 11 = 11$ (T) · $9 \times 9 = 81$ (P) · $1 \times 5 = 5$ (I) · $10 \times 10 = 100$ (H) · $10 \times 7 = 70$ (S) · $3 \times 2 = 6$ (N) · $8 \times 2 = 16$ (U) · $2 \times 2 = 4$ (O) · $3 \times 4 = 12$ (C) · $9 \times 10 = 90$ (R) · $9 \times 6 = 54$ (A) · $3 \times 6 = 18$ (V) · $5 \times 2 = 10$ (D) · $2 \times 11 = 22$ (E) · $3 \times 11 = 33$ (K) · $6 \times 8 = 48$ (L) · $3 \times 7 = 21$ (W)

Clue 2 (Rounding): "RIGHT FOOTED SNEAKER PRINT WAS ON FIELD"

Round 26 to the nearest ten = 30 (R) · Round 8,933 to the nearest thousand = 9000 (W) · Round 232 to the nearest ten = 230 (F) · Round 2,290 to the nearest hundred = 2300 (H) · Round 74 to the nearest ten = 70 (N) · Round 2,916 to the nearest hundred = 2900 (O) · Round 212 to the nearest hundred = 200 (D) · Round 106 to the nearest ten = 110 (T) · Round 19 to the nearest ten = 20 (A) · Round 277 to the nearest hundred = 300 (E) · Round 1,349 to the nearest hundred = 1300 (G) · Round 7,352 to the nearest thousand = 7000 (K) · Round 431 to the nearest ten = 430 (S) · Round 1,802 to the nearest thousand = 2000 (I) · Round 373 to the nearest ten = 370 (P) · Round 1,676 to the nearest hundred = 1700 (L)

Clue 3 (Addition): "THE SQUEAKY MASCOT TOY DISTRACTED THEM"

$3556 + 4223 = 7779$ (T) · $6139 + 2845 = 8984$ (E) · $2175 + 3687 = 5862$ (U) · $2123 + 3813 = 5936$ (K) · $1202 + 1886 = 3088$ (Y) · $3856 + 3896 = 7752$ (A) · $1882 + 2861 = 4743$ (M) · $1652 + 880 = 2532$ (D) · $2399 + 2531 = 4930$ (I) · $2990 + 4011 = 7001$ (H) · $3965 + 3439 = 7404$ (O) · $3145 + 6720 = 9865$ (Q) · $4402 + 2706 = 7108$ (C) · $1390 + 3128 = 4518$ (R) · $3887 + 4684 = 8571$ (S)

Clue 4 (Subtraction): "WE FOUND BRIGHT BLUE HAIR ON THE BENCH"

$11947 - 3709 = 8238$ (W) · $10828 - 3074 = 7754$ (O) · $10996 - 3654 = 7342$ (U) · $5245 - 1284 = 3961$ (F) · $10047 - 4843 = 5204$ (I) · $7281 - 4557 = 2724$ (G) · $4977 - 2438 = 2539$ (N) · $12366 - 3421 = 8945$ (E) · $3183 - 2080 = 1103$ (A) · $10570 - 2421 = 8149$ (R) · $10736 - 4836 = 5900$ (T) · $8375 - 4409 = 3966$ (H) · $10672 - 1684 = 8988$ (D) · $8598 - 4080 = 4518$ (L) · $4298 - 2281 = 2017$ (B) · $9736 - 2555 = 7181$ (C)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Kevin

$15 \div 3 = 5$ · $44 \div 11 = 4$ · $4 \div 2 = 2$ · $4 \div 4 = 1$ · $108 \div 9 = 12$ · $30 \div 5 = 6$ · $18 \div 2 = 9$ · $22 \div 2 = 11$ · $50 \div 5 = 10$ · $56 \div 8 = 7$ · $56 \div 7 = 8$