



The Case of the Missing Golden Goal Cup

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

Detective: _____ Date: _____

The golden championship trophy has been stolen right out of the locker room! A mysterious soccer superstar sneaked past the stadium security. Use your math skills and soccer clues to track down the thief before the big game starts!

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 trophy snatcher is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE SHOT	SPECIAL MOVE	PREFERRED FOOT	FIELD GEAR	MAJOR DISTRACTION
Kevin	power header	chest trap	right footed	green sweatband	referee whistle
Tobin	super volley	rainbow flick	left footed	green sweatband	bright floodlights
Erling	bicycle kick	fake pass	right footed	blue hair dye	referee whistle
Kylian	speed dribble	field sprint	right footed	neon headband	muddy field
Alex	curved free kick	field sprint	left footed	green sweatband	referee whistle
Mason	bicycle kick	field sprint	right footed	green sweatband	bright floodlights
Rose	speed dribble	rainbow flick	left footed	green sweatband	referee whistle
Marcus	power header	chest trap	left footed	blue hair dye	muddy field
Jack	curved free kick	field sprint	left footed	blue hair dye	referee whistle
Luka	curved free kick	fake pass	right footed	blue hair dye	bright floodlights
Lindsey	super volley	rainbow flick	right footed	blue hair dye	referee whistle
Son	speed dribble	fake pass	left footed	neon headband	muddy field
Mo	curved free kick	rainbow flick	left footed	blue hair dye	muddy field
Harry	curved free kick	field sprint	right footed	blue hair dye	referee whistle
Leo	curved free kick	chest trap	right footed	blue hair dye	muddy field
Bukayo	power header	chest trap	right footed	blue hair dye	referee whistle
Trinity	speed dribble	chest trap	right footed	blue hair dye	referee whistle
Phil	power header	field sprint	right footed	neon headband	referee whistle
Cristiano	power header	slide tackle	left footed	green sweatband	referee whistle
Marta	power header	rainbow flick	right footed	blue hair dye	referee whistle
Chloe	power header	field sprint	right footed	green sweatband	muddy field

CLUE 1

Multiplication facts (1-12)

The coach counted the rows of training cones. There were five rows with seven cones in each row. Find how many cones there are to decode this first clue.

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

T			T											T			
81	6	32	81	6	77	32	28	27	99	32	3	21	99	81	80	3	32
T																	
81	6	32	7	56	77	21	64	99	18	28	100	77	70	20			

$9 \times 9 = \square \rightarrow \boxed{\text{T}}$

$7 \times 11 = \square \rightarrow \boxed{\text{I}}$

$7 \times 4 = \square \rightarrow \boxed{\text{F}}$

$3 \times 9 = \square \rightarrow \boxed{\text{D}}$

$7 \times 10 = \square \rightarrow \boxed{\text{C}}$

$1 \times 3 = \square \rightarrow \boxed{\text{S}}$

$4 \times 8 = \square \rightarrow \boxed{\text{E}}$

$8 \times 7 = \square \rightarrow \boxed{\text{A}}$

$10 \times 2 = \square \rightarrow \boxed{\text{K}}$

$7 \times 3 = \square \rightarrow \boxed{\text{N}}$

$8 \times 8 = \square \rightarrow \boxed{\text{B}}$

$10 \times 8 = \square \rightarrow \boxed{\text{U}}$

$7 \times 1 = \square \rightarrow \boxed{\text{R}}$

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

$3 \times 6 = \square \rightarrow \boxed{\text{W}}$

$1 \times 6 = \square \rightarrow \boxed{\text{H}}$

$9 \times 11 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 2 Addition

We found a pile of practice jerseys on the grass. Add up the home jerseys and the away jerseys to get the secret sum for this clue.

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

T															
6733	8383	8811	2439	5542	5884	5884	8298	5542	8827	9502	6872	6500	9502	8811	6855
		T		T						T					T
8298	6872	6733	8383	6733	8383	8811	6206	6872	7223	8383	6733	3507	7293	7293	6733

$4425 + 2308 = \square \rightarrow \text{[T]}$

$3757 + 1785 = \square \rightarrow \text{[A]}$

$3721 + 5781 = \square \rightarrow \text{[K]}$

$3580 + 3275 = \square \rightarrow \text{[D]}$

$4347 + 2153 = \square \rightarrow \text{[C]}$

$2664 + 4559 = \square \rightarrow \text{[G]}$

$4166 + 4661 = \square \rightarrow \text{[S]}$

$2692 + 4180 = \square \rightarrow \text{[I]}$

$3395 + 2489 = \square \rightarrow \text{[L]}$

$2017 + 4189 = \square \rightarrow \text{[R]}$

$3535 + 4763 = \square \rightarrow \text{[W]}$

$3409 + 5402 = \square \rightarrow \text{[E]}$

$1112 + 1327 = \square \rightarrow \text{[B]}$

$5593 + 2790 = \square \rightarrow \text{[H]}$

$2420 + 1087 = \square \rightarrow \text{[F]}$

$2775 + 4518 = \square \rightarrow \text{[O]}$

Scratch space:

CLUE 3 Rounding

The speed radar clocked a fast kick. The radar screen rounds the speed to the nearest ten. Round the number to find where the thief went.

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

T			T												T				
200	50	300	200	50	2900	300	130	900	3000	1100	300	5000	300	2300	200	50	300	2900	5000
300	110	5000	30	2900	7000	110	7000	290	300	5000									

Round 210 to the nearest hundred → **T**

Round 4,922 to the nearest thousand → **R**

Round 313 to the nearest hundred → **E**

Round 1,062 to the nearest hundred → **V**

Round 2,791 to the nearest thousand → **O**

Round 7,417 to the nearest thousand → **N**

Round 27 to the nearest ten → **S**

Round 291 to the nearest ten → **G**

Round 111 to the nearest ten → **A**

Round 2,345 to the nearest hundred → **D**

Round 52 to the nearest ten → **H**

Round 2,885 to the nearest hundred → **I**

Round 131 to the nearest ten → **F**

Round 897 to the nearest hundred → **C**

Scratch space:

CLUE 4 Subtraction

The team had a crate of soccer balls. Some balls are now missing. Subtract the leftover balls to find out how many the thief took.

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

A																			
1291	1382	3004	4037	4731	8461	1613	1382	8495	3004	4299	4039	6419	6422	2495	1291	1613	6476		

	A											
4731	1291	6419	3004	4039	7503	6422	8495	4039	7019	8461	1613	6476

$3680 - 2389 = \square \rightarrow \boxed{A}$	$6454 - 2155 = \square \rightarrow \boxed{U}$	$12867 - 4372 = \square \rightarrow \boxed{B}$
$10767 - 4348 = \square \rightarrow \boxed{S}$	$3676 - 2063 = \square \rightarrow \boxed{N}$	$10903 - 4481 = \square \rightarrow \boxed{T}$
$11194 - 3691 = \square \rightarrow \boxed{F}$	$11830 - 3369 = \square \rightarrow \boxed{I}$	$6484 - 2445 = \square \rightarrow \boxed{E}$
$9856 - 3380 = \square \rightarrow \boxed{D}$	$4222 - 1727 = \square \rightarrow \boxed{R}$	$5537 - 4155 = \square \rightarrow \boxed{G}$
$3474 - 470 = \square \rightarrow \boxed{L}$	$8163 - 1144 = \square \rightarrow \boxed{H}$	$7239 - 3202 = \square \rightarrow \boxed{O}$
$9084 - 4353 = \square \rightarrow \boxed{W}$		

Scratch space:

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

The referee wants to share the orange slices equally among the players. Divide the slices to get the final clue.

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:

$3 \div 1 = \boxed{}$

$9 \div 1 = \boxed{}$

$20 \div 2 = \boxed{}$

$15 \div 3 = \boxed{}$

$60 \div 10 = \boxed{}$

$72 \div 6 = \boxed{}$

$42 \div 6 = \boxed{}$

$20 \div 5 = \boxed{}$

$40 \div 5 = \boxed{}$

$44 \div 4 = \boxed{}$

$1 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scores a power header, then tricks with a fake pass.
2. The villain uses a speed dribble, then stops the ball with a chest trap.
3. The villain curved a free kick, then runs a field sprint.
4. The villain performs a bicycle kick, then performs a slide tackle.
5. The villain scores a power header, then performs a slide tackle.
6. The villain unleashes a super volley, then tricks with a fake pass.
7. The villain performs a bicycle kick, then shows off a rainbow flick.
8. The villain unleashes a super volley, then runs a field sprint.
9. The villain scores a power header, then stops the ball with a chest trap.
10. The villain performs a bicycle kick, then tricks with a fake pass.
11. The villain unleashes a super volley, then shows off a rainbow flick.
12. The villain uses a speed dribble, then runs a field sprint.

Answer Key

The Case of the Missing Golden Goal Cup

Culprit: Trinity

speed dribble · chest trap · right footed · blue hair dye · referee whistle

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE THIEF DOES NOT USE THE RAINBOW FLICK"

$9 \times 9 = 81$ (T) · $7 \times 11 = 77$ (I) · $7 \times 4 = 28$ (F) · $3 \times 9 = 27$ (D) · $7 \times 10 = 70$ (C) · $1 \times 3 = 3$ (S) · $4 \times 8 = 32$ (E) · $8 \times 7 = 56$ (A) · $10 \times 2 = 20$ (K) · $7 \times 3 = 21$ (N) · $8 \times 8 = 64$ (B) · $10 \times 8 = 80$ (U) · $7 \times 1 = 7$ (R) · $10 \times 10 = 100$ (L) · $3 \times 6 = 18$ (W) · $1 \times 6 = 6$ (H) · $9 \times 11 = 99$ (O)

Clue 2 (Addition): "THE BALL WAS KICKED WITH THE RIGHT FOOT"

$4425 + 2308 = 6733$ (T) · $3757 + 1785 = 5542$ (A) · $3721 + 5781 = 9502$ (K) · $3580 + 3275 = 6855$ (D) · $4347 + 2153 = 6500$ (C) · $2664 + 4559 = 7223$ (G) · $4166 + 4661 = 8827$ (S) · $2692 + 4180 = 6872$ (I) · $3395 + 2489 = 5884$ (L) · $2017 + 4189 = 6206$ (R) · $3535 + 4763 = 8298$ (W) · $3409 + 5402 = 8811$ (E) · $1112 + 1327 = 2439$ (B) · $5593 + 2790 = 8383$ (H) · $2420 + 1087 = 3507$ (F) · $2775 + 4518 = 7293$ (O)

Clue 3 (Rounding): "THE THIEF COVERED THEIR EARS IN ANGER"

Round 210 to the nearest hundred = 200 (T) · Round 4,922 to the nearest thousand = 5000 (R) · Round 313 to the nearest hundred = 300 (E) · Round 1,062 to the nearest hundred = 1100 (V) · Round 2,791 to the nearest thousand = 3000 (O) · Round 7,417 to the nearest thousand = 7000 (N) · Round 27 to the nearest ten = 30 (S) · Round 291 to the nearest ten = 290 (G) · Round 111 to the nearest ten = 110 (A) · Round 2,345 to the nearest hundred = 2300 (D) · Round 52 to the nearest ten = 50 (H) · Round 2,885 to the nearest hundred = 2900 (I) · Round 131 to the nearest ten = 130 (F) · Round 897 to the nearest hundred = 900 (C)

Clue 4 (Subtraction): "A GLOWING BLUE STRAND WAS LEFT BEHIND"

$3680 - 2389 = 1291$ (A) · $6454 - 2155 = 4299$ (U) · $12867 - 4372 = 8495$ (B) · $10767 - 4348 = 6419$ (S) · $3676 - 2063 = 1613$ (N) · $10903 - 4481 = 6422$ (T) · $11194 - 3691 = 7503$ (F) · $11830 - 3369 = 8461$ (I) · $6484 - 2445 = 4039$ (E) · $9856 - 3380 = 6476$ (D) · $4222 - 1727 = 2495$ (R) · $5537 - 4155 = 1382$ (G) · $3474 - 470 = 3004$ (L) · $8163 - 1144 = 7019$ (H) · $7239 - 3202 = 4037$ (O) · $9084 - 4353 = 4731$ (W)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Trinity

$3 \div 1 = 3$ · $9 \div 1 = 9$ · $20 \div 2 = 10$ · $15 \div 3 = 5$ · $60 \div 10 = 6$ · $72 \div 6 = 12$ · $42 \div 6 = 7$ · $20 \div 5 = 4$ · $40 \div 5 = 8$ · $44 \div 4 = 11$ · $1 \div 1 = 1$