



The Case of the Missing Golden Cup

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

Detective: _____ **Date:** _____

The Golden Cup has vanished from the stadium trophy case right before the big game! A sneaky bandit left muddy footprints all over the pitch. Coach Ben needs your math skills to inspect the locker rooms, analyze the clues, and find out which soccer superstar took the cup 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 Cleat Bandit 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	SPECIAL GEAR	DOMINANT FOOT	HAIR STYLE	GAME OBSTACLE
Karim	invisible dribbling	turbo cleat boost	left-footed kicks	tight messy bun	soggy muddy grass
Robert	hypnotic ball spin	laser focus vision	right-footed kicks	spiked blonde hair	soggy muddy grass
Kylian	invisible dribbling	phantom curve shot	left-footed kicks	spiked blonde hair	soggy muddy grass
Alex	hypnotic ball spin	sonic whistle blast	left-footed kicks	tight messy bun	soggy muddy grass
Mohamed	hypnotic ball spin	turbo cleat boost	left-footed kicks	spiked blonde hair	soggy muddy grass
Bukayo	super bicycle kick	laser focus vision	right-footed kicks	spiked blonde hair	soggy muddy grass
Wendie	gravity-defying header	phantom curve shot	left-footed kicks	neon green headband	shiny yellow card
Sonny	super bicycle kick	turbo cleat boost	left-footed kicks	neon green headband	shiny yellow card
Pele	lightning speed sprint	sonic whistle blast	right-footed kicks	neon green headband	shrill referee whistle
Virgil	hypnotic ball spin	laser focus vision	right-footed kicks	tight messy bun	shiny yellow card
Lionel	lightning speed sprint	laser focus vision	left-footed kicks	spiked blonde hair	soggy muddy grass
Neymar	hypnotic ball spin	sticky goalie grip	left-footed kicks	spiked blonde hair	soggy muddy grass
Zinedine	invisible dribbling	sonic whistle blast	right-footed kicks	neon green headband	shrill referee whistle
Marta	lightning speed sprint	turbo cleat boost	right-footed kicks	tight messy bun	soggy muddy grass
Megan	hypnotic ball spin	sticky goalie grip	left-footed kicks	spiked blonde hair	shrill referee whistle
Cristiano	lightning speed sprint	sonic whistle blast	right-footed kicks	tight messy bun	shrill referee whistle
Kevin	lightning speed sprint	turbo cleat boost	left-footed kicks	spiked blonde hair	soggy muddy grass
Luka	invisible dribbling	phantom curve shot	left-footed kicks	neon green headband	soggy muddy grass
Sam	invisible dribbling	sticky goalie grip	right-footed kicks	neon green headband	shrill referee whistle
Erling	invisible dribbling	laser focus vision	right-footed kicks	neon green headband	shiny yellow card
Harry	super bicycle kick	laser focus vision	left-footed kicks	spiked blonde hair	shiny yellow card

CLUE 1

You find a digital security lock on the main trophy room door. The lock screen flashes numbers where the position of the digit reveals the passcode.

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

300 800 3000 6000 400 10 80 100 300 80 70 3000 700 10 70 300 200 700 3000

9000 800 400 10 300 70 50 20 200 60 600 3000 700 800 70 300

What is the value of the 3 in 2,301? → **T**

What is the value of the 2 in 326? → **C**

What is the value of the 1 in 197? →

1

What is the value of the 7 in 9,472? → ☐

What is the value of the 6 in 2,635? → **V**

What is the value of the 8 in 2,822? → **H**

What is the value of the 4 in 6,465? → **A**

What is the value of the 6 in 468? → **R**

What is the value of the 3 in 3,615? → **E**

What is the value of the 1 in 518? → **N**

What is the value of the 5 in 351? → **M**

What is the value of the 8 in 481? → **D**

What is the value of the 6 in 86,119? → **B**

What is the value of the 9 in 9,208? → **P**

What is the value of the 7 in 781? → **S**

What is the value of the 2 in 290? → **U**

Scratch space:

CLUE 2 Addition

To search the stadium seats, we must count and add up all the unclaimed foam fingers left behind by the fans.

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

T																		
8174	6294	5552	9653	8524	3099	3795	3795	6893	3099	3795	4573	6511	7709	4573	5552	7457	9069	4067

						T				T
4770	6013	3099	3655	5552	3460	8174	3460	4533	4533	8174

$4794 + 3380 = \square \rightarrow \text{**T**}$

$1826 + 2747 = \square \rightarrow \text{**K**}$

$4520 + 4004 = \square \rightarrow \text{**R**}$

$2397 + 1258 = \square \rightarrow \text{**L**}$

$3400 + 2894 = \square \rightarrow \text{**H**}$

$5192 + 2517 = \square \rightarrow \text{**C**}$

$2098 + 3915 = \square \rightarrow \text{**Y**}$

$4024 + 5629 = \square \rightarrow \text{**G**}$

$2325 + 1742 = \square \rightarrow \text{**P**}$

$1979 + 4532 = \square \rightarrow \text{**I**}$

$1957 + 1838 = \square \rightarrow \text{**S**}$

$1815 + 2955 = \square \rightarrow \text{**B**}$

$2854 + 4039 = \square \rightarrow \text{**W**}$

$1821 + 1278 = \square \rightarrow \text{**A**}$

$5095 + 2362 = \square \rightarrow \text{**D**}$

$3144 + 1389 = \square \rightarrow \text{**O**}$

$2983 + 2569 = \square \rightarrow \text{**E**}$

$1280 + 2180 = \square \rightarrow \text{**F**}$

$3030 + 6039 = \square \rightarrow \text{**U**}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

In the equipment room, soccer balls are stacked in equal rows. Multiplying the rows gives us the key to open the locker.

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

T														
80	49	14	70	63	14	55	1	121	11	11	14	40	121	7
55	63	90	90	88	21	54	40	40	88	90	48	60	55	55

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

$7 \times 7 = \square \rightarrow \boxed{\text{H}}$

$1 \times 11 = \square \rightarrow \boxed{\text{P}}$

$6 \times 8 = \square \rightarrow \boxed{\text{R}}$

$10 \times 6 = \square \rightarrow \boxed{\text{A}}$

$11 \times 5 = \square \rightarrow \boxed{\text{S}}$

$8 \times 11 = \square \rightarrow \boxed{\text{Y}}$

$7 \times 9 = \square \rightarrow \boxed{\text{O}}$

$7 \times 2 = \square \rightarrow \boxed{\text{E}}$

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

$5 \times 8 = \square \rightarrow \boxed{\text{D}}$

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

$1 \times 1 = \square \rightarrow \boxed{\text{L}}$

$9 \times 10 = \square \rightarrow \boxed{\text{G}}$

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

$9 \times 6 = \square \rightarrow \boxed{\text{U}}$

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

Scratch space:

CLUE 4 Rounding

The field radar gun tracked the suspect's getaway speed, but it only shows the velocity rounded to the nearest ten.

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

A																			
370	3000	1100	900	1700	430	5000	70	200	500	170	5000	430	20	370	900	3700			

	A																		
230	370	3000	200	430	30	300	900	170	200	500	2000	1700	430	3700					

Round 366 to the nearest ten → **A**

Round 852 to the nearest hundred → **I**

Round 1,121 to the nearest hundred → **P**

Round 233 to the nearest ten → **W**

Round 4,671 to the nearest thousand → **D**

Round 3,680 to the nearest hundred → **R**

Round 426 to the nearest ten → **E**

Round 542 to the nearest hundred → **O**

Round 1,687 to the nearest hundred → **K**

Round 2,453 to the nearest thousand → **C**

Round 2,761 to the nearest thousand → **S**

Round 238 to the nearest hundred → **L**

Round 66 to the nearest ten → **B**

Round 256 to the nearest hundred → **T**

Round 31 to the nearest ten → **F**

Round 169 to the nearest ten → **N**

Round 22 to the nearest ten → **H**

Scratch space:

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

Before the referee shares his notes, we must split a crate of sports drinks equally among the team helpers.

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:

$22 \div 2 = \boxed{}$

$3 \div 3 = \boxed{}$

$36 \div 6 = \boxed{}$

$70 \div 7 = \boxed{}$

$48 \div 12 = \boxed{}$

$132 \div 11 = \boxed{}$

$2 \div 1 = \boxed{}$

$77 \div 11 = \boxed{}$

$36 \div 12 = \boxed{}$

$54 \div 6 = \boxed{}$

$80 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shows off a hypnotic ball spin, then escapes with a turbo cleat boost.
2. The villain performs a super bicycle kick, then distracts guards with a sonic whistle blast.
3. The villain does a gravity-defying header, then distracts guards with a sonic whistle blast.
4. The villain activates a lightning speed sprint, then scores a phantom curve shot to flee.
5. The villain activates a lightning speed sprint, then escapes with a turbo cleat boost.
6. The villain activates a lightning speed sprint, then spots the exit with laser focus vision.
7. The villain performs a super bicycle kick, then scores a phantom curve shot to flee.
8. The villain shows off a hypnotic ball spin, then scores a phantom curve shot to flee.
9. The villain does a gravity-defying header, then escapes with a turbo cleat boost.
10. The villain performs a super bicycle kick, then escapes with a turbo cleat boost.
11. The villain shows off a hypnotic ball spin, then grabs the cup with a sticky goalie grip.
12. The villain does a gravity-defying header, then scores a phantom curve shot to flee.

Answer Key

The Case of the Missing Golden Cup

Culprit: Kevin

lightning speed sprint · turbo cleat boost · left-footed kicks · spiked blonde hair · soggy muddy grass

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE BANDIT DOES NOT USE PHANTOM CURVE SHOT"

What is the value of the 3 in 2,301? = 300 (T) · What is the value of the 2 in 326? = 20 (C) · What is the value of the 1 in 197? = 100 (I) · What is the value of the 7 in 9,472? = 70 (O) · What is the value of the 6 in 2,635? = 600 (V) · What is the value of the 8 in 2,822? = 800 (H) · What is the value of the 4 in 6,465? = 400 (A) · What is the value of the 6 in 468? = 60 (R) · What is the value of the 3 in 3,615? = 3000 (E) · What is the value of the 1 in 518? = 10 (N) · What is the value of the 5 in 351? = 50 (M) · What is the value of the 8 in 481? = 80 (D) · What is the value of the 6 in 86,119? = 6000 (B) · What is the value of the 9 in 9,208? = 9000 (P) · What is the value of the 7 in 781? = 700 (S) · What is the value of the 2 in 290? = 200 (U)

Clue 2 (Addition): "THE GRASS WAS KICKED UP BY A LEFT FOOT"

4794 + 3380 = 8174 (T) · 1826 + 2747 = 4573 (K) · 4520 + 4004 = 8524 (R) · 2397 + 1258 = 3655 (L) · 3400 + 2894 = 6294 (H) · 5192 + 2517 = 7709 (C) · 2098 + 3915 = 6013 (Y) · 4024 + 5629 = 9653 (G) · 2325 + 1742 = 4067 (P) · 1979 + 4532 = 6511 (I) · 1957 + 1838 = 3795 (S) · 1815 + 2955 = 4770 (B) · 2854 + 4039 = 6893 (W) · 1821 + 1278 = 3099 (A) · 5095 + 2362 = 7457 (D) · 3144 + 1389 = 4533 (O) · 2983 + 2569 = 5552 (E) · 1280 + 2180 = 3460 (F) · 3030 + 6039 = 9069 (U)

Clue 3 (Multiplication facts (1-12)): "THE FOE SLIPPED IN SOGGY MUDDY GRASS"

8 × 10 = 80 (T) · 7 × 7 = 49 (H) · 1 × 11 = 11 (P) · 6 × 8 = 48 (R) · 10 × 6 = 60 (A) · 11 × 5 = 55 (S) · 8 × 11 = 88 (Y) · 7 × 9 = 63 (O) · 7 × 2 = 14 (E) · 7 × 10 = 70 (F) · 5 × 8 = 40 (D) · 1 × 7 = 7 (N) · 1 × 1 = 1 (L) · 9 × 10 = 90 (G) · 7 × 3 = 21 (M) · 9 × 6 = 54 (U) · 11 × 11 = 121 (I)

Clue 4 (Rounding): "A SPIKED BLONDE HAIR WAS LEFT IN LOCKER"

Round 366 to the nearest ten = 370 (A) · Round 852 to the nearest hundred = 900 (I) · Round 1,121 to the nearest hundred = 1100 (P) · Round 233 to the nearest ten = 230 (W) · Round 4,671 to the nearest thousand = 5000 (D) · Round 3,680 to the nearest hundred = 3700 (R) · Round 426 to the nearest ten = 430 (E) · Round 542 to the nearest hundred = 500 (O) · Round 1,687 to the nearest hundred = 1700 (K) · Round 2,453 to the nearest thousand = 2000 (C) · Round 2,761 to the nearest thousand = 3000 (S) · Round 238 to the nearest hundred = 200 (L) · Round 66 to the nearest ten = 70 (B) · Round 256 to the nearest hundred = 300 (T) · Round 31 to the nearest ten = 30 (F) · Round 169 to the nearest ten = 170 (N) · Round 22 to the nearest ten = 20 (H)

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

22 ÷ 2 = 11 · 3 ÷ 3 = 1 · 36 ÷ 6 = 6 · 70 ÷ 7 = 10 · 48 ÷ 12 = 4 · 132 ÷ 11 = 12 · 2 ÷ 1 = 2 · 77 ÷ 11 = 7 · 36 ÷ 12 = 3 · 54 ÷ 6 = 9 · 80 ÷ 10 = 8