



The Case of the Missing Golden Trophy

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

Detective: _____ Date: _____

Just before the championship kickoff at Star Falls Stadium, the Golden Trophy disappeared from its locked case! The Head Referee found clues all over the pitch. Solve the math puzzles to catch the culprit!

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 Thief is _____

Possible suspects

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

NAME	SOCCER MOVE	LUCKY GEAR	WRISTBAND SIDE	HAIRSTYLE	DISTRACTION
Marcus Rashford	Curve Drive	Golden Gloves	Left Wristband	Curly Top Knot	Loud Horns
David Beckham	Slide Tackle	Turbo Whistle	Left Wristband	Curly Top Knot	Slippery Mud
Mia Hamm	Bicycle Kick	Glowing Cleats	Right Wristband	Curly Top Knot	Squeaky Whistle
Megan Rapinoe	Bicycle Kick	Golden Gloves	Left Wristband	Spiky Green Hair	Squeaky Whistle
Kylian Mbappe	Bicycle Kick	Speed Headband	Left Wristband	Spiky Green Hair	Slippery Mud
Marta Silva	Phantom Dribble	Glowing Cleats	Left Wristband	Spiky Green Hair	Slippery Mud
Kevin De Bruyne	Phantom Dribble	Turbo Whistle	Left Wristband	Curly Top Knot	Loud Horns
Wayne Rooney	Curve Drive	Glowing Cleats	Left Wristband	Curly Top Knot	Loud Horns
Luka Modric	Power Strike	Speed Headband	Left Wristband	Curly Top Knot	Squeaky Whistle
Son Heungmin	Curve Drive	Golden Gloves	Right Wristband	Braided Ponytail	Squeaky Whistle
Cole Palmer	Slide Tackle	Glowing Cleats	Left Wristband	Spiky Green Hair	Loud Horns
Pedri Gonzalez	Curve Drive	Glowing Cleats	Left Wristband	Curly Top Knot	Squeaky Whistle
Alex Morgan	Power Strike	Neon Shin Guards	Left Wristband	Spiky Green Hair	Squeaky Whistle
Pele Santos	Phantom Dribble	Neon Shin Guards	Left Wristband	Curly Top Knot	Squeaky Whistle
Cristiano Ronaldo	Bicycle Kick	Speed Headband	Right Wristband	Curly Top Knot	Squeaky Whistle
Jude Bellingham	Slide Tackle	Speed Headband	Left Wristband	Braided Ponytail	Squeaky Whistle
Lionel Messi	Curve Drive	Golden Gloves	Left Wristband	Curly Top Knot	Squeaky Whistle
Rose Lavelle	Phantom Dribble	Turbo Whistle	Left Wristband	Curly Top Knot	Squeaky Whistle
Alphonso Davies	Power Strike	Glowing Cleats	Right Wristband	Spiky Green Hair	Slippery Mud
Erling Haaland	Power Strike	Golden Gloves	Left Wristband	Curly Top Knot	Slippery Mud
Sam Kerr	Curve Drive	Turbo Whistle	Left Wristband	Spiky Green Hair	Squeaky Whistle

CLUE 1 Rounding

The stadium digital scoreboard rounded the fan attendance to the nearest ten to display our first clue.

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

T									T								T
60	700	40	7000	70	7000	200	40	30	60	600	900	40	7000	5000	900	60	
3000	40	4000	50	4000	60	70	50	300	900	3000	700	80	7000	60	9000	40	

Round 58 to the nearest ten → **T**

Round 67 to the nearest ten → **U**

Round 34 to the nearest ten → **C**

Round 82 to the nearest ten → **I**

Round 324 to the nearest hundred → **B**

Round 851 to the nearest hundred → **O**

Round 6,942 to the nearest thousand → **S**

Round 4,654 to the nearest thousand → **N**

Round 37 to the nearest ten → **E**

Round 696 to the nearest hundred → **H**

Round 4,063 to the nearest thousand → **A**

Round 3,454 to the nearest thousand → **W**

Round 621 to the nearest hundred → **D**

Round 52 to the nearest ten → **R**

Round 196 to the nearest hundred → **P**

Round 9,492 to the nearest thousand → **L**

Scratch space:

CLUE 2

Word problems

Coach Ramirez checked the equipment supply count to learn details about the culprit.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was L S B A N D .

20 58 26 35 65 10 57 35

Coach Ramirez found 15 practice cones yesterday and 5 more today. How many practice cones in all?

Answer: → L

Coach Ramirez found 47 team jerseys yesterday and 11 more today. How many team jerseys in all?

Answer: → E

Coach Ramirez found 8 mini goals yesterday and 49 more today. How many mini goals in all?

Answer: → I

Coach Ramirez lined up 5 rows of 7 water bottles. How many water bottles in all?

Answer: → T

There were 65 practice cones. 39 were used up. How many practice cones are left?

Answer: → F

There were 79 soccer balls. 14 were used up. How many soccer balls are left?

Answer: → W

There were 43 mini goals. 33 were used up. How many mini goals are left?

Answer: → R

Scratch space:

CLUE 3

Multiplication facts (1-12)

The groundskeeper counted rows of practice cones across the field to decode a mystery number.

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

A					A														
96	70	64	28	32	96	9	10	8	45	55	70	99	5	32	66	96	2	32	
99	45	32	99	45	55	32	63	63	28	66	121	5	32						

$8 \times 12 = \square \rightarrow \boxed{\text{A}}$

$2 \times 4 = \square \rightarrow \boxed{\text{W}}$

$9 \times 1 = \square \rightarrow \boxed{\text{K}}$

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

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

$2 \times 1 = \square \rightarrow \boxed{\text{D}}$

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

$9 \times 5 = \square \rightarrow \boxed{\text{H}}$

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

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

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

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

$1 \times 10 = \square \rightarrow \boxed{\text{Y}}$

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

$1 \times 5 = \square \rightarrow \boxed{\text{L}}$

$6 \times 11 = \square \rightarrow \boxed{\text{M}}$

Scratch space:

CLUE 4 Place value

The referee checked place values on the locker room code pad to unlock key evidence.

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

A							A				A					
500	6000	70	50	8000	300	7000	500	600	50	40	500	400	8000	5000	2000	90
		A											A			
1000	5000	500	50	90	7000	5000	90	50	60	200	7000	300	6000	500	400	5000

What is the value of the 5 in 6,500? → **A**

What is the value of the 7 in 7,390? → **H**

What is the value of the 5 in 950? → **R**

What is the value of the 3 in 7,362? → **Y**

What is the value of the 2 in 5,281? → **P**

What is the value of the 4 in 6,433? → **S**

What is the value of the 8 in 48,247? → **L**

What is the value of the 1 in 1,946? → **N**

What is the value of the 9 in 395? → **T**

What is the value of the 6 in 265? → **O**

What is the value of the 5 in 5,096? → **E**

What is the value of the 2 in 2,867? → **F**

What is the value of the 6 in 684? → **I**

What is the value of the 7 in 470? → **U**

What is the value of the 4 in 542? → **W**

What is the value of the 6 in 6,784? → **C**

Scratch space:

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

The team divided up drills equally to reveal the final hint about the villain.

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:

$63 \div 7 = \boxed{}$

$2 \div 1 = \boxed{}$

$27 \div 9 = \boxed{}$

$44 \div 4 = \boxed{}$

$8 \div 8 = \boxed{}$

$55 \div 11 = \boxed{}$

$32 \div 4 = \boxed{}$

$36 \div 6 = \boxed{}$

$144 \div 12 = \boxed{}$

$44 \div 11 = \boxed{}$

$14 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain showed a phantom dribble, then blew a turbo whistle.
2. The villain bent a curve drive, then adjusted golden gloves.
3. The villain blasted a power strike, then snapped a speed headband.
4. The villain bent a curve drive, then blew a turbo whistle.
5. The villain executed a slide tackle, then adjusted golden gloves.
6. The villain showed a phantom dribble, then snapped a speed headband.
7. The villain bent a curve drive, then flashed neon shin guards.
8. The villain executed a slide tackle, then blew a turbo whistle.
9. The villain bent a curve drive, then flashed glowing cleats.
10. The villain showed a phantom dribble, then flashed neon shin guards.
11. The villain bent a curve drive, then snapped a speed headband.
12. The villain blasted a power strike, then adjusted golden gloves.

Answer Key

The Case of the Missing Golden Trophy

Culprit: Pele Santos

Phantom Dribble · Neon Shin Guards · Left Wristband · Curly Top Knot · Squeaky Whistle

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SUSPECT DOES NOT WEAR A TURBO WHISTLE"

Round 58 to the nearest ten = 60 (T) · Round 67 to the nearest ten = 70 (U) · Round 34 to the nearest ten = 30 (C) · Round 82 to the nearest ten = 80 (I) · Round 324 to the nearest hundred = 300 (B) · Round 851 to the nearest hundred = 900 (O) · Round 6,942 to the nearest thousand = 7000 (S) · Round 4,654 to the nearest thousand = 5000 (N) · Round 37 to the nearest ten = 40 (E) · Round 696 to the nearest hundred = 700 (H) · Round 4,063 to the nearest thousand = 4000 (A) · Round 3,454 to the nearest thousand = 3000 (W) · Round 621 to the nearest hundred = 600 (D) · Round 52 to the nearest ten = 50 (R) · Round 196 to the nearest hundred = 200 (P) · Round 9,492 to the nearest thousand = 9000 (L)

Clue 2 (Word problems): "LEFT WRISTBAND"

Coach Ramirez found 15 practice cones yesterday and 5 more today. How many practice cones in all? = 20 (L) · Coach Ramirez found 47 team jerseys yesterday and 11 more today. How many team jerseys in all? = 58 (E) · Coach Ramirez found 8 mini goals yesterday and 49 more today. How many mini goals in all? = 57 (I) · Coach Ramirez lined up 5 rows of 7 water bottles. How many water bottles in all? = 35 (T) · There were 65 practice cones. 39 were used up. How many practice cones are left? = 26 (F) · There were 79 soccer balls. 14 were used up. How many soccer balls are left? = 65 (W) · There were 43 mini goals. 33 were used up. How many mini goals are left? = 10 (R)

Clue 3 (Multiplication facts (1-12)): "A SQUEAKY WHISTLE MADE THE THIEF FUMBLE"

$8 \times 12 = 96$ (A) · $2 \times 4 = 8$ (W) · $9 \times 1 = 9$ (K) · $7 \times 9 = 63$ (F) · $11 \times 5 = 55$ (I) · $2 \times 1 = 2$ (D) · $11 \times 11 = 121$ (B) · $9 \times 5 = 45$ (H) · $9 \times 11 = 99$ (T) · $4 \times 8 = 32$ (E) · $4 \times 7 = 28$ (U) · $7 \times 10 = 70$ (S) · $1 \times 10 = 10$ (Y) · $8 \times 8 = 64$ (Q) · $1 \times 5 = 5$ (L) · $6 \times 11 = 66$ (M)

Clue 4 (Place value): "A CURLY HAIR WAS LEFT NEAR THE TROPHY CASE"

What is the value of the 5 in 6,500? = 500 (A) · What is the value of the 7 in 7,390? = 7000 (H) · What is the value of the 5 in 950? = 50 (R) · What is the value of the 3 in 7,362? = 300 (Y) · What is the value of the 2 in 5,281? = 200 (P) · What is the value of the 4 in 6,433? = 400 (S) · What is the value of the 8 in 48,247? = 8000 (L) · What is the value of the 1 in 1,946? = 1000 (N) · What is the value of the 9 in 395? = 90 (T) · What is the value of the 6 in 265? = 60 (O) · What is the value of the 5 in 5,096? = 5000 (E) · What is the value of the 2 in 2,867? = 2000 (F) · What is the value of the 6 in 684? = 600 (I) · What is the value of the 7 in 470? = 70 (U) · What is the value of the 4 in 542? = 40 (W) · What is the value of the 6 in 6,784? = 6000 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Pele Santos

$63 \div 7 = 9$ · $2 \div 1 = 2$ · $27 \div 9 = 3$ · $44 \div 4 = 11$ · $8 \div 8 = 1$ · $55 \div 11 = 5$ · $32 \div 4 = 8$ · $36 \div 6 = 6$ · $144 \div 12 = 12$ · $44 \div 11 = 4$ · $14 \div 2 = 7$