



The Golden Trophy Heist

Grade 5 math · Multiplication, Fractions of a number, Order of operations, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The Golden World Cup Trophy has vanished right from the center circle just minutes before kickoff! The Head Referee believes one of the legendary tournament superstars is the culprit. You must analyze the evidence left behind on the pitch to unmask the Phantom Striker.

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 Phantom Striker 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	DOMINANT FOOT	HAIRSTYLE	MATCH DISLIKE
Andres Iniesta	Knuckleball Free Kick	Neon Gold Cleats	Left Footed	Buzz Cut	Wet Pitch
Ronaldo Nazario	Panenka Penalty	Chrono Smartwatch	Right Footed	Classic Undercut	Deflated Ball
Erling Haaland	Bicycle Kick	Carbon Fiber Shin Guards	Right Footed	Frosted Tips	Deflated Ball
Luis Suarez	Elastic Dribble	Neon Gold Cleats	Left Footed	Classic Undercut	Loud Vuvuzelas
Bruno Fernandes	Panenka Penalty	Chrono Smartwatch	Left Footed	Classic Undercut	Deflated Ball
Virgil van Dijk	Elastic Dribble	Thermal Headband	Left Footed	Buzz Cut	Wet Pitch
Diego Maradona	Bicycle Kick	Grip Tech Socks	Right Footed	Frosted Tips	Wet Pitch
Lionel Messi	Knuckleball Free Kick	Neon Gold Cleats	Left Footed	Frosted Tips	Wet Pitch
Neymar Jr	Panenka Penalty	Grip Tech Socks	Right Footed	Frosted Tips	Deflated Ball
Ronaldinho	Knuckleball Free Kick	Chrono Smartwatch	Left Footed	Frosted Tips	Deflated Ball
Kevin De Bruyne	Elastic Dribble	Grip Tech Socks	Left Footed	Frosted Tips	Deflated Ball
Thomas Muller	Rabona Pass	Grip Tech Socks	Right Footed	Frosted Tips	Deflated Ball
Cristiano Ronaldo	Bicycle Kick	Carbon Fiber Shin Guards	Left Footed	Frosted Tips	Loud Vuvuzelas
Luka Modric	Knuckleball Free Kick	Carbon Fiber Shin Guards	Right Footed	Frosted Tips	Deflated Ball
Antoine Griezmann	Bicycle Kick	Thermal Headband	Right Footed	Frosted Tips	Deflated Ball
Son Heung min	Knuckleball Free Kick	Chrono Smartwatch	Right Footed	Buzz Cut	Deflated Ball
Pele	Rabona Pass	Neon Gold Cleats	Right Footed	Classic Undercut	Deflated Ball
Harry Kane	Panenka Penalty	Grip Tech Socks	Right Footed	Classic Undercut	Loud Vuvuzelas
Mohamed Salah	Knuckleball Free Kick	Grip Tech Socks	Left Footed	Buzz Cut	Wet Pitch
Manuel Neuer	Panenka Penalty	Carbon Fiber Shin Guards	Right Footed	Classic Undercut	Loud Vuvuzelas
Kylian Mbappe	Elastic Dribble	Grip Tech Socks	Right Footed	Frosted Tips	Deflated Ball

Multiplication facts (1-12)

We found rows of storage lockers in the dressing room. Let us multiply the rows of lockers by the number in each row to count the gear bags and see what the villain did not take.

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

A number line from 0 to 1000 with boxes for numbers and their prime factors. The number 32 is highlighted in orange.

Number	Prime Factors
32	2, 2, 2, 2, 2
132	2, 2, 3, 11
48	2, 2, 2, 2, 3
30	2, 3, 5
42	2, 3, 7
48	2, 2, 2, 2, 3
90	2, 3, 3, 5
42	2, 3, 7
48	2, 2, 2, 2, 3
5	5
11	11
42	2, 3, 7
32	2, 2, 2, 2, 2
1	
48	2, 2, 2, 2, 3
55	5, 11
6	2, 3

$4 \times 8 = \boxed{} \rightarrow \boxed{\text{T}}$

$$1 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$2 \times 3 = \boxed{} \rightarrow \boxed{\text{R}}$$

$11 \times 12 = \square \rightarrow \text{H}$

$11 \times 5 = \square \rightarrow \mathbf{A}$

$11 \times 7 = \boxed{} \rightarrow \boxed{\text{U}}$

$10 \times 9 = \square \rightarrow \mathbf{D}$

$8 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$$6 \times 7 = \boxed{} \rightarrow \boxed{0}$$

$$8 \times 5 = \boxed{} \rightarrow \boxed{\text{I}}$$

$12 \times 4 = \boxed{} \rightarrow \boxed{\text{E}}$

$$1 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$11 \times 1 = \square \rightarrow \mathbf{N}$

$5 \times 6 = \square \rightarrow \mathbf{F}$

Scratch space:

CLUE 2

Fractions of a number

The referee found a muddy print on the pitch. We need to calculate a fraction of the total footsteps to find which foot the runner used most.

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

T										T				T					
25	22	24	7	34	7	32	24	12	25	7	22	33	25	34	7	11	35	38	
T										T				T					
25	22	24	11	28	28	11	38	22	25	18	33	33	25	33	35	3	27		

$1/4 \text{ of } 100 = \square \rightarrow \boxed{\text{T}}$

$1/3 \text{ of } 33 = \square \rightarrow \boxed{\text{I}}$

$5/8 \text{ of } 56 = \square \rightarrow \boxed{\text{N}}$

$2/3 \text{ of } 51 = \square \rightarrow \boxed{\text{U}}$

$7/8 \text{ of } 8 = \square \rightarrow \boxed{\text{S}}$

$1/2 \text{ of } 66 = \square \rightarrow \boxed{\text{O}}$

$1/4 \text{ of } 72 = \square \rightarrow \boxed{\text{F}}$

$1/2 \text{ of } 76 = \square \rightarrow \boxed{\text{G}}$

$1/3 \text{ of } 81 = \square \rightarrow \boxed{\text{Y}}$

$1/6 \text{ of } 132 = \square \rightarrow \boxed{\text{H}}$

$1/3 \text{ of } 36 = \square \rightarrow \boxed{\text{C}}$

$5/10 \text{ of } 48 = \square \rightarrow \boxed{\text{E}}$

$2/6 \text{ of } 96 = \square \rightarrow \boxed{\text{P}}$

$4/10 \text{ of } 70 = \square \rightarrow \boxed{\text{R}}$

$1/3 \text{ of } 9 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 3
Order of operations

The locker room door has a digital lock. We must follow the strict order of operations on the coach's clipboard to crack the code and find the hair sample.

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

T									T										
53	34	41	23	41	28	76	43	53	41	23	28	76	43	53	20	43	76	76	

	T							T									
68	53	79	54	54	41	23	53	34	41	19	6	76	76	43	6	47	

$32 + 3 \times 7 = \square \rightarrow$ T	$28 + 3 \times 5 = \square \rightarrow$ A	$4 \times 10 - 12 = \square \rightarrow$ F
$6 \times 12 - 4 = \square \rightarrow$ S	$38 + 2 \times 8 = \square \rightarrow$ P	$8 \times 6 - 1 = \square \rightarrow$ N
$12 \times 7 - 5 = \square \rightarrow$ O	$4 + 3 \times 5 = \square \rightarrow$ V	$9 \times 10 - 14 = \square \rightarrow$ L
$22 + 3 \times 4 = \square \rightarrow$ H	$8 \times 3 - 18 = \square \rightarrow$ I	$15 + 2 \times 4 = \square \rightarrow$ D
$10 \times 7 - 29 = \square \rightarrow$ E	$10 \times 3 - 10 = \square \rightarrow$ B	

Scratch space:

CLUE 4 Rounding

The giant stadium decibel meter only shows rounded numbers. We must round the crowd's loudest cheer to the nearest ten to unlock the sound level that bothered the thief.

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

W																
50	200	170	230	370	2900	110	300	3000	1300	200	70	2000	300	230	170	
170	1300	230	300	3000	200	110	30	500	230	2900	110	200	3700	70	2300	1300

Round 49 to the nearest ten → **W**

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

Round 213 to the nearest hundred → **E**

Round 372 to the nearest ten → **U**

Round 227 to the nearest ten → **O**

Round 167 to the nearest ten → **F**

Round 1,746 to the nearest thousand → **K**

Round 2,869 to the nearest hundred → **N**

Round 2,535 to the nearest thousand → **T**

Round 71 to the nearest ten → **A**

Round 3,655 to the nearest hundred → **H**

Round 1,295 to the nearest hundred → **R**

Round 2,285 to the nearest hundred → **I**

Round 505 to the nearest hundred → **L**

Round 34 to the nearest ten → **B**

Round 111 to the nearest ten → **D**

Scratch space:

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

The ball boy is dividing the championship soccer balls equally into gear bags. Splitting the total balls will reveal the final clue about the villain's secret weakness.

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:

$22 \div 2 = \boxed{}$

$4 \div 1 = \boxed{}$

$18 \div 6 = \boxed{}$

$30 \div 5 = \boxed{}$

$144 \div 12 = \boxed{}$

$32 \div 4 = \boxed{}$

$9 \div 9 = \boxed{}$

$90 \div 10 = \boxed{}$

$14 \div 7 = \boxed{}$

$10 \div 2 = \boxed{}$

$40 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain performs a stunning bicycle kick, then taps their carbon fiber shin guards.
2. The villain performs a stunning bicycle kick, then flashes their neon gold cleats.
3. The villain weaves through defenders with an elastic dribble, then adjusts their grip tech socks.
4. The villain crosses the ball with a rabona pass, then adjusts their grip tech socks.
5. The villain weaves through defenders with an elastic dribble, then checks their chrono smartwatch.
6. The villain chips the goalie with a panenka penalty, then flashes their neon gold cleats.
7. The villain chips the goalie with a panenka penalty, then adjusts their grip tech socks.
8. The villain blasts a knuckleball free kick, then taps their carbon fiber shin guards.
9. The villain blasts a knuckleball free kick, then pulls up their thermal headband.
10. The villain crosses the ball with a rabona pass, then flashes their neon gold cleats.
11. The villain performs a stunning bicycle kick, then pulls up their thermal headband.
12. The villain performs a stunning bicycle kick, then checks their chrono smartwatch.

Answer Key

The Golden Trophy Heist

Culprit: Neymar Jr

Panenka Penalty · Grip Tech Socks · Right Footed · Frosted Tips · Deflated Ball

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE FOE DOES NOT WEAR SHIN GUARDS"

$4 \times 8 = 32$ (T) · $1 \times 5 = 5$ (S) · $2 \times 3 = 6$ (R) · $11 \times 12 = 132$ (H) · $11 \times 5 = 55$ (A) · $11 \times 7 = 77$ (U) · $10 \times 9 = 90$ (D) · $8 \times 12 = 96$ (G) · $6 \times 7 = 42$ (O) · $8 \times 5 = 40$ (I) · $12 \times 4 = 48$ (E) · $1 \times 1 = 1$ (W) · $11 \times 1 = 11$ (N) · $5 \times 6 = 30$ (F)

Clue 2 (Fractions of a number): "THE SUSPECT SHOT USING THEIR RIGHT FOOT ONLY"

$\frac{1}{4}$ of 100 = 25 (T) · $\frac{1}{3}$ of 33 = 11 (I) · $\frac{5}{8}$ of 56 = 35 (N) · $\frac{2}{3}$ of 51 = 34 (U) · $\frac{7}{8}$ of 8 = 7 (S) · $\frac{1}{2}$ of 66 = 33 (O) · $\frac{1}{4}$ of 72 = 18 (F) · $\frac{1}{2}$ of 76 = 38 (G) · $\frac{1}{3}$ of 81 = 27 (Y) · $\frac{1}{6}$ of 132 = 22 (H) · $\frac{1}{3}$ of 36 = 12 (C) · $\frac{5}{10}$ of 48 = 24 (E) · $\frac{2}{6}$ of 96 = 32 (P) · $\frac{4}{10}$ of 70 = 28 (R) · $\frac{1}{3}$ of 9 = 3 (L)

Clue 3 (Order of operations): "THE DEFLATED FLAT BALL STOPPED THE VILLAIN"

$32 + 3 \times 7 = 53$ (T) · $28 + 3 \times 5 = 43$ (A) · $4 \times 10 - 12 = 28$ (F) · $6 \times 12 - 4 = 68$ (S) · $38 + 2 \times 8 = 54$ (P) · $8 \times 6 - 1 = 47$ (N) · $12 \times 7 - 5 = 79$ (O) · $4 + 3 \times 5 = 19$ (V) · $9 \times 10 - 14 = 76$ (L) · $22 + 3 \times 4 = 34$ (H) · $8 \times 3 - 18 = 6$ (I) · $15 + 2 \times 4 = 23$ (D) · $10 \times 7 - 29 = 41$ (E) · $10 \times 3 - 10 = 20$ (B)

Clue 4 (Rounding): "WE FOUND STREAKS OF FROSTED BLONDE HAIR"

Round 49 to the nearest ten = 50 (W) · Round 277 to the nearest hundred = 300 (S) · Round 213 to the nearest hundred = 200 (E) · Round 372 to the nearest ten = 370 (U) · Round 227 to the nearest ten = 230 (O) · Round 167 to the nearest ten = 170 (F) · Round 1,746 to the nearest thousand = 2000 (K) · Round 2,869 to the nearest hundred = 2900 (N) · Round 2,535 to the nearest thousand = 3000 (T) · Round 71 to the nearest ten = 70 (A) · Round 3,655 to the nearest hundred = 3700 (H) · Round 1,295 to the nearest hundred = 1300 (R) · Round 2,285 to the nearest hundred = 2300 (I) · Round 505 to the nearest hundred = 500 (L) · Round 34 to the nearest ten = 30 (B) · Round 111 to the nearest ten = 110 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Neymar Jr

$22 \div 2 = 11$ · $4 \div 1 = 4$ · $18 \div 6 = 3$ · $30 \div 5 = 6$ · $144 \div 12 = 12$ · $32 \div 4 = 8$ · $9 \div 9 = 1$ · $90 \div 10 = 9$ · $14 \div 7 = 2$ · $10 \div 2 = 5$ · $40 \div 4 = 10$