The Golden Trophy Mystery

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

Detective: _____ **Date:** _____

Right before the final match of the season, the Golden Championship Trophy vanished from the stadium display case! A mysterious player left behind footprints and tactical notes around the pitch.

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 Pitch Phantom 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	LUCKY GEAR	DOMINANT FOOT	HAIRSTYLE	DISTRACTION
Kylian Dash	Precision Pass	Captains Armband	Right Footed	Spiky Hair	Water Bottle Splash
Alisson Catch	Diving Header	Grip Gloves	Left Footed	Curly Hair	Red Card
Bukayo Wing	Bicycle Kick	Grip Gloves	Left Footed	Spiky Hair	Whistle Sound
Harry Header	Bicycle Kick	Weighted Shin Guards	Left Footed	Curly Hair	Water Bottle Splash
Erling Power	Rocket Volley	Captains Armband	Right Footed	Spiky Hair	Whistle Sound
Mateo Net	Curving Free Kick	Grip Gloves	Right Footed	Spiky Hair	Whistle Sound
Diego Curve	Diving Header	Captains Armband	Right Footed	Spiky Hair	Water Bottle Splash
Pedri Pivot	Rocket Volley	Grip Gloves	Right Footed	Curly Hair	Red Card
Kevin Pass	Rocket Volley	Grip Gloves	Right Footed	Braided Hair	Whistle Sound
Sammy Striker	Diving Header	Weighted Shin Guards	Left Footed	Braided Hair	Water Bottle Splash
Ederson Sweep	Diving Header	Neon Cleats	Left Footed	Curly Hair	Water Bottle Splash
Bruno Kick	Bicycle Kick	Captains Armband	Left Footed	Curly Hair	Red Card
Jude Drive	Diving Header	Neon Cleats	Right Footed	Curly Hair	Red Card
Virgil Block	Curving Free Kick	Weighted Shin Guards	Left Footed	Braided Hair	Whistle Sound
Sonny Rush	Bicycle Kick	Grip Gloves	Left Footed	Curly Hair	Water Bottle Splash
Trent Cross	Rocket Volley	Captains Armband	Right Footed	Curly Hair	Water Bottle Splash
Leo Swift	Curving Free Kick	Padded Headband	Left Footed	Curly Hair	Water Bottle Splash
Marcus Boot	Curving Free Kick	Padded Headband	Left Footed	Spiky Hair	Whistle Sound
Phil Flick	Precision Pass	Weighted Shin Guards	Left Footed	Spiky Hair	Water Bottle Splash
Cristiano Shot	Rocket Volley	Captains Armband	Left Footed	Spiky Hair	Water Bottle Splash
Jamal Dribble	Diving Header	Weighted Shin Guards	Left Footed	Curly Hair	Water Bottle Splash

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CLUE 1 Rounding

> The digital radar screen at the tunnel entrance only displays rounded speed numbers, but rounding these pitch stats gives us our first clue.

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

T																	T		
370	7000	230	50	130	110	110	20	130	1100	4300	2000	230	3000	1100	2000	370			
700	230	20	1700	20	70	20	4300	4300	230	4300	7000	230	20	4300	300	20	1100	4300	

Round 369 to the nearest ten ☐ → T

Round 108 to the nearest ten ☐ → L

Round 1,131 to the nearest hundred ☐ → N

Round 46 to the nearest ten ☐ → V

Round 2,508 to the nearest thousand ☐ → S

Round 261 to the nearest hundred ☐ → B

Round 67 to the nearest ten ☐ → P

Round 2,346 to the nearest thousand ☐ → O

Round 233 to the nearest ten ☐ → E

Round 130 to the nearest ten ☐ → I

Round 19 to the nearest ten ☐ → A

Round 6,742 to the nearest thousand ☐ → H

Round 4,261 to the nearest hundred ☐ → D

Round 732 to the nearest hundred ☐ → W

Round 1,662 to the nearest hundred ☐ → R

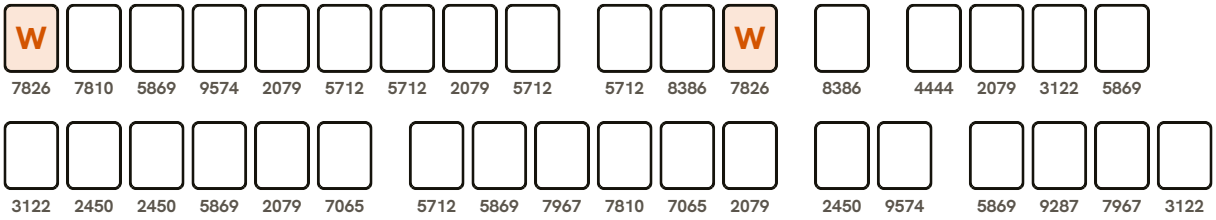
Scratch space:

CLUE 2

Addition

The equipment manager adds up all the practice gear collected after warmups to reveal the next note.

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



4897 + 2929 = ☐ → W

5566 + 2401 = ☐ → R

1181 + 898 = ☐ → E

3208 + 3857 = ☐ → D

4436 + 3950 = ☐ → A

3738 + 2131 = ☐ → T

1725 + 2719 = ☐ → L

2888 + 6399 = ☐ → U

1251 + 1199 = ☐ → O

3843 + 3967 = ☐ → I

5219 + 4355 = ☐ → N

2083 + 1039 = ☐ → F

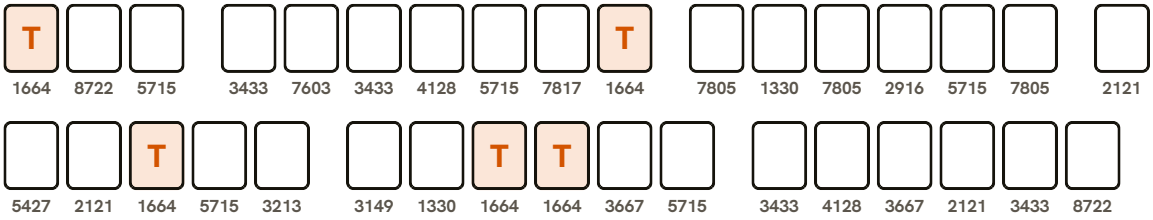
2228 + 3484 = ☐ → S

Scratch space:

CLUE 3 Subtraction

> Comparing total passes made to successful passes leaves a clear difference on the clipboard.

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



6206 - 4542 = ☐ → T

1875 - 545 = ☐ → O

8803 - 998 = ☐ → D

5984 - 557 = ☐ → W

3898 - 982 = ☐ → G

5893 - 178 = ☐ → E

9599 - 1782 = ☐ → C

11989 - 3267 = ☐ → H

11335 - 3732 = ☐ → U

8306 - 4639 = ☐ → L

5687 - 2474 = ☐ → R

7004 - 3855 = ☐ → B

2650 - 529 = ☐ → A

8625 - 4497 = ☐ → P

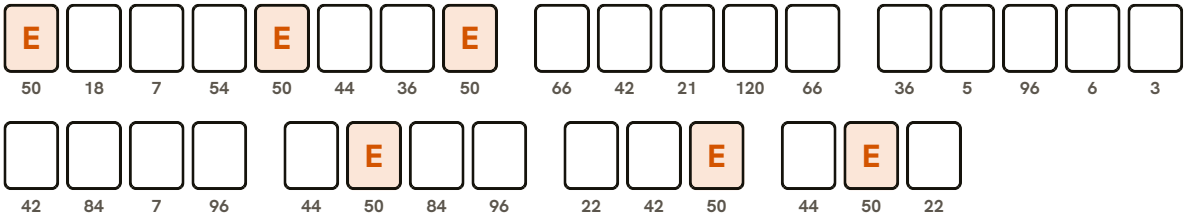
8293 - 4860 = ☐ → S

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Counting equal rows of bleacher seats filled by supporters lets us multiply to find the total attendance.

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



5 × 10 = ☐ → E	12 × 10 = ☐ → W	6 × 6 = ☐ → C		
2 × 3 = ☐ → L	8 × 12 = ☐ → R	1 × 7 = ☐ → I	6 × 9 = ☐ → D	
5 × 1 = ☐ → U	4 × 11 = ☐ → N	7 × 6 = ☐ → H		
11 × 2 = ☐ → T	7 × 12 = ☐ → A	9 × 2 = ☐ → V		
7 × 3 = ☐ → O	1 × 3 = ☐ → Y	11 × 6 = ☐ → S		

Scratch space:

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

Sharing the championship juice boxes equally among practice squads leaves a encoded leftover number.

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:

5 ÷ 1 = ☐ | 72 ÷ 12 = ☐ | 48 ÷ 12 = ☐ | 100 ÷ 10 = ☐ | 18 ÷ 9 = ☐

72 ÷ 8 = ☐ | 35 ÷ 5 = ☐ | 77 ÷ 7 = ☐ | 12 ÷ 4 = ☐ | 12 ÷ 12 = ☐

36 ÷ 3 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain blasts a goal with a rocket volley, then flashes neon cleats.
2. The villain controls tempo with a precision pass, then straps on weighted shin guards.
3. The villain powers past defenders with a bicycle kick, then tightens a padded headband.
4. The villain powers past defenders with a bicycle kick, then adjusts grip gloves.
5. The villain scores using a diving header, then flashes neon cleats.
6. The villain powers past defenders with a bicycle kick, then straps on weighted shin guards.
7. The villain bends the ball with a curving free kick, then adjusts grip gloves.
8. The villain scores using a diving header, then straps on weighted shin guards.
9. The villain scores using a diving header, then adjusts grip gloves.
10. The villain blasts a goal with a rocket volley, then straps on weighted shin guards.
11. The villain controls tempo with a precision pass, then adjusts grip gloves.
12. The villain powers past defenders with a bicycle kick, then flashes neon cleats.

TEACHER / PARENT

Answer Key

The Golden Trophy Mystery

Culprit: Jamal Dribble

Diving Header · Weighted Shin Guards · Left Footed · Curly Hair · Water Bottle Splash

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT WEAR A PADDED HEADBAND"

Round 369 to the nearest ten = 370 (T) · Round 108 to the nearest ten = 110 (L) · Round 1,131 to the nearest hundred = 1100 (N) · Round 46 to the nearest ten = 50 (V) · Round 2,508 to the nearest thousand = 3000 (S) · Round 261 to the nearest hundred = 300 (B) · Round 67 to the nearest ten = 70 (P) · Round 2,346 to the nearest thousand = 2000 (O) · Round 233 to the nearest ten = 230 (E) · Round 130 to the nearest ten = 130 (I) · Round 19 to the nearest ten = 20 (A) · Round 6,742 to the nearest thousand = 7000 (H) · Round 4,261 to the nearest hundred = 4300 (D) · Round 732 to the nearest hundred = 700 (W) · Round 1,662 to the nearest hundred = 1700 (R)

Clue 2 (Addition): "WITNESSES SAW A LEFT FOOTED STRIDE ON TURF"

4897 + 2929 = 7826 (W) · 5566 + 2401 = 7967 (R) · 1181 + 898 = 2079 (E) · 3208 + 3857 = 7065 (D) · 4436 + 3950 = 8386 (A) · 3738 + 2131 = 5869 (T) · 1725 + 2719 = 4444 (L) · 2888 + 6399 = 9287 (U) · 1251 + 1199 = 2450 (O) · 3843 + 3967 = 7810 (I) · 5219 + 4355 = 9574 (N) · 2083 + 1039 = 3122 (F) · 2228 + 3484 = 5712 (S)

Clue 3 (Subtraction): "THE SUSPECT DODGED A WATER BOTTLE SPLASH"

6206 - 4542 = 1664 (T) · 1875 - 545 = 1330 (O) · 8803 - 998 = 7805 (D) · 5984 - 557 = 5427 (W) · 3898 - 982 = 2916 (G) · 5893 - 178 = 5715 (E) · 9599 - 1782 = 7817 (C) · 11989 - 3267 = 8722 (H) · 11335 - 3732 = 7603 (U) · 8306 - 4639 = 3667 (L) · 5687 - 2474 = 3213 (R) · 7004 - 3855 = 3149 (B) · 2650 - 529 = 2121 (A) · 8625 - 4497 = 4128 (P) · 8293 - 4860 = 3433 (S)

Clue 4 (Multiplication facts (1-12)): "EVIDENCE SHOWS CURLY HAIR NEAR THE NET"

5 × 10 = 50 (E) · 12 × 10 = 120 (W) · 6 × 6 = 36 (C) · 2 × 3 = 6 (L) · 8 × 12 = 96 (R) · 1 × 7 = 7 (I) · 6 × 9 = 54 (D) · 5 × 1 = 5 (U) · 4 × 11 = 44 (N) · 7 × 6 = 42 (H) · 11 × 2 = 22 (T) · 7 × 12 = 84 (A) · 9 × 2 = 18 (V) · 7 × 3 = 21 (O) · 1 × 3 = 3 (Y) · 11 × 6 = 66 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Jamal Dribble

5 ÷ 1 = 5 · 72 ÷ 12 = 6 · 48 ÷ 12 = 4 · 100 ÷ 10 = 10 · 18 ÷ 9 = 2 · 72 ÷ 8 = 9 · 35 ÷ 5 = 7 · 77 ÷ 7 = 11 · 12 ÷ 4 = 3 · 12 ÷ 12 = 1 · 36 ÷ 3 = 12