The Starlight League Trophy Mystery

Grade 5 math · Multiplication, Rounding, Place value, Addition, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Just hours before the championship final, the Golden Cleat trophy vanished from the locker room display! The culprit left tactical clues all over the turf. Analyze the match logs to unmask the culprit 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 trophy swindler is _____

Possible suspects

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

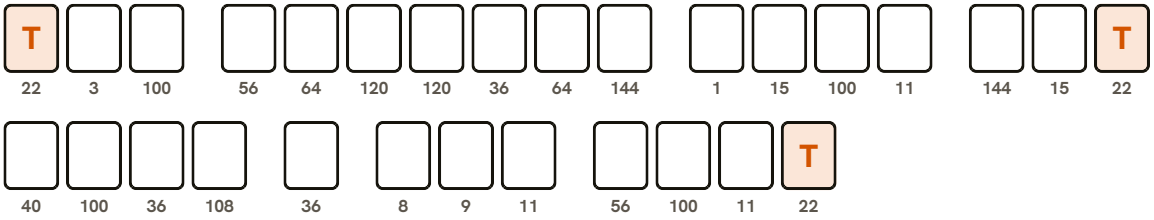
NAME	SIGNATURE MOVE	SPECIAL GEAR	WATCH WRIST	HAIRSTYLE	MATCH FLAW
Jude Bellingham	Rainbow Flick	Carbon Cleats	Right Wrist Watch	Curly Top	Squeaky Cleats
Alex Morgan	Curved Corner	Carbon Cleats	Left Wrist Watch	Short Buzz	Squeaky Cleats
Rose Lavelle	Knuckleball Shot	GPS Vest	Left Wrist Watch	High Ponytail	Heavy Ball
Son Heungmin	Rainbow Flick	Grip Gloves	Left Wrist Watch	High Ponytail	Squeaky Cleats
Sam Kerr	No-Look Pass	Grip Gloves	Right Wrist Watch	Curly Top	Loose Laces
Pedri	Curved Corner	Grip Gloves	Left Wrist Watch	Curly Top	Loose Laces
Cole Palmer	Bicycle Kick	Speed Headband	Right Wrist Watch	Curly Top	Loose Laces
Bruno Fernandes	No-Look Pass	Padded Socks	Right Wrist Watch	Short Buzz	Loose Laces
Megan Rapinoe	No-Look Pass	Padded Socks	Right Wrist Watch	High Ponytail	Squeaky Cleats
Kylian Mbappe	No-Look Pass	Padded Socks	Left Wrist Watch	High Ponytail	Heavy Ball
Bukayo Saka	Knuckleball Shot	Speed Headband	Right Wrist Watch	High Ponytail	Loose Laces
Mohamed Salah	Knuckleball Shot	GPS Vest	Right Wrist Watch	Curly Top	Loose Laces
Virgil van Dijk	Knuckleball Shot	Speed Headband	Right Wrist Watch	High Ponytail	Squeaky Cleats
Harry Kane	Knuckleball Shot	GPS Vest	Right Wrist Watch	Curly Top	Heavy Ball
Alphonso Davies	Rainbow Flick	Grip Gloves	Right Wrist Watch	High Ponytail	Heavy Ball
Cristiano Ronaldo	No-Look Pass	GPS Vest	Right Wrist Watch	Short Buzz	Loose Laces
Phil Foden	Curved Corner	Grip Gloves	Right Wrist Watch	Curly Top	Loose Laces
Declan Rice	Bicycle Kick	Grip Gloves	Left Wrist Watch	High Ponytail	Heavy Ball
Marcus Rashford	Curved Corner	GPS Vest	Right Wrist Watch	Curly Top	Heavy Ball
Kevin De Bruyne	No-Look Pass	Speed Headband	Right Wrist Watch	Curly Top	Loose Laces
Erling Haaland	No-Look Pass	Speed Headband	Left Wrist Watch	Curly Top	Loose Laces

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CLUE 1 Multiplication facts (1-12)

> The equipment manager counted the training cones packed into identical grid boxes before the game.

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



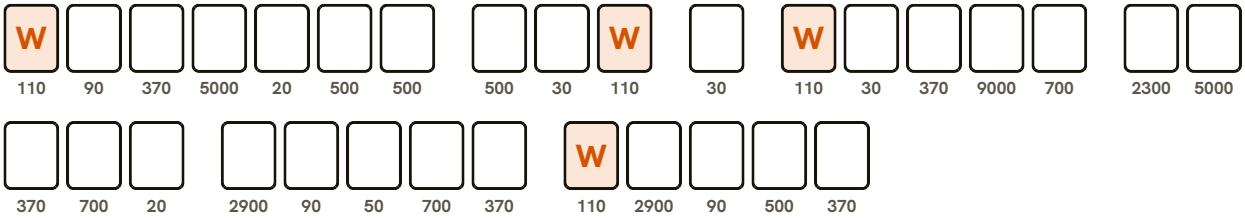
2 × 11 = ☐ → T	8 × 8 = ☐ → I	8 × 1 = ☐ → G
9 × 12 = ☐ → R	4 × 9 = ☐ → A	1 × 1 = ☐ → D
10 × 10 = ☐ → E	5 × 3 = ☐ → O	3 × 1 = ☐ → H
10 × 12 = ☐ → L	10 × 4 = ☐ → W	7 × 8 = ☐ → V
1 × 9 = ☐ → P	12 × 12 = ☐ → N	1 × 11 = ☐ → S

Scratch space:

CLUE 2 Rounding

The stadium digital scoreboard only shows attendance figures rounded to the nearest thousand.

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



Round 112 to the nearest ten ☐ → W

Round 371 to the nearest ten ☐ → T

Round 9,460 to the nearest thousand ☐ → C

Round 31 to the nearest ten ☐ → A

Round 89 to the nearest ten ☐ → I

Round 538 to the nearest hundred ☐ → S

Round 17 to the nearest ten ☐ → E

Round 749 to the nearest hundred ☐ → H

Round 5,490 to the nearest thousand ☐ → N

Round 53 to the nearest ten ☐ → G

Round 2,862 to the nearest hundred ☐ → R

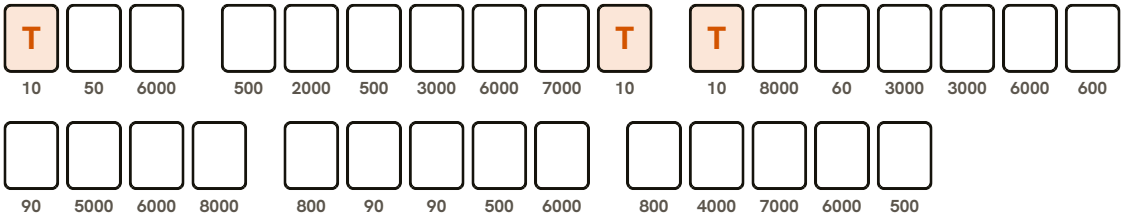
Round 2,269 to the nearest hundred ☐ → O

Scratch space:

CLUE 3 Place value

The head referee reviewed the digit positions in the official ticket tracking system.

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



What is the value of the 1 in 98,618? ☐ → T

What is the value of the 5 in 16,854? ☐ → H

What is the value of the 5 in 215,999? ☐ → V

What is the value of the 3 in 23,656? ☐ → P

What is the value of the 6 in 258,682? ☐ → D

What is the value of the 2 in 662,741? ☐ → U

What is the value of the 8 in 323,850? ☐ → L

What is the value of the 5 in 739,540? ☐ → S

What is the value of the 4 in 84,506? ☐ → A

What is the value of the 7 in 387,525? ☐ → C

What is the value of the 8 in 618,934? ☐ → R

What is the value of the 9 in 50,193? ☐ → O

What is the value of the 6 in 86,929? ☐ → E

What is the value of the 6 in 171,067? ☐ → I

Scratch space:

CLUE 4 Addition

> The assistant coach summed up the total passes completed across all four quarters.

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



2646 + 3622 = ☐ → A	3536 + 2180 = ☐ → P	857 + 1779 = ☐ → E
4733 + 3944 = ☐ → O	1337 + 2007 = ☐ → C	5671 + 3065 = ☐ → L
6034 + 2912 = ☐ → N	3680 + 5026 = ☐ → I	3114 + 6323 = ☐ → W
623 + 1429 = ☐ → H	5160 + 3527 = ☐ → D	6397 + 3117 = ☐ → F
3843 + 2176 = ☐ → S	2229 + 4024 = ☐ → T	2544 + 1301 = ☐ → Y
2823 + 5457 = ☐ → R	2596 + 5298 = ☐ → U	

Scratch space:

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

> The team captain split the energy drinks equally among all the bench players.

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:

12 ÷ 12 = ☐	15 ÷ 3 = ☐	18 ÷ 9 = ☐	108 ÷ 12 = ☐	99 ÷ 9 = ☐
40 ÷ 5 = ☐	12 ÷ 2 = ☐	70 ÷ 10 = ☐	60 ÷ 5 = ☐	21 ÷ 7 = ☐
24 ÷ 6 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain bent a curved corner around the wall, then adjusted their grip gloves.
2. The villain disguised the move with a no look pass, then straightened their speed headband.
3. The villain dazzled the defense with a rainbow flick, then adjusted their grip gloves.
4. The villain bent a curved corner around the wall, then laced up their carbon cleats.
5. The villain disguised the move with a no look pass, then adjusted their grip gloves.
6. The villain blasted a knuckleball shot past the keeper, then checked the battery on their gps vest.
7. The villain dazzled the defense with a rainbow flick, then straightened their speed headband.
8. The villain bent a curved corner around the wall, then pulled up their padded socks.
9. The villain dazzled the defense with a rainbow flick, then laced up their carbon cleats.
10. The villain executed a flawless bicycle kick, then straightened their speed headband.
11. The villain disguised the move with a no look pass, then pulled up their padded socks.
12. The villain disguised the move with a no look pass, then checked the battery on their gps vest.

TEACHER / PARENT

Answer Key

The Starlight League Trophy Mystery

Culprit: Cole Palmer

Bicycle Kick · Speed Headband · Right Wrist Watch · Curly Top · Loose Laces

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT WEAR A GPS VEST"

2 × 11 = 22 (T) · 8 × 8 = 64 (I) · 8 × 1 = 8 (G) · 9 × 12 = 108 (R) · 4 × 9 = 36 (A) · 1 × 1 = 1 (D) · 10 × 10 = 100 (E) · 5 × 3 = 15 (O) · 3 × 1 = 3 (H) · 10 × 12 = 120 (L) · 10 × 4 = 40 (W) · 7 × 8 = 56 (V) · 1 × 9 = 9 (P) · 12 × 12 = 144 (N) · 1 × 11 = 11 (S)

Clue 2 (Rounding): "WITNESS SAW A WATCH ON THE RIGHT WRIST"

Round 112 to the nearest ten = 110 (W) · Round 371 to the nearest ten = 370 (T) · Round 9,460 to the nearest thousand = 9000 (C) · Round 31 to the nearest ten = 30 (A) · Round 89 to the nearest ten = 90 (I) · Round 538 to the nearest hundred = 500 (S) · Round 17 to the nearest ten = 20 (E) · Round 749 to the nearest hundred = 700 (H) · Round 5,490 to the nearest thousand = 5000 (N) · Round 53 to the nearest ten = 50 (G) · Round 2,862 to the nearest hundred = 2900 (R) · Round 2,269 to the nearest hundred = 2300 (O)

Clue 3 (Place value): "THE SUSPECT TRIPPED OVER LOOSE LACES"

What is the value of the 1 in 98,618? = 10 (T) · What is the value of the 5 in 16,854? = 50 (H) · What is the value of the 5 in 215,999? = 5000 (V) · What is the value of the 3 in 23,656? = 3000 (P) · What is the value of the 6 in 258,682? = 600 (D) · What is the value of the 2 in 662,741? = 2000 (U) · What is the value of the 8 in 323,850? = 800 (L) · What is the value of the 5 in 739,540? = 500 (S) · What is the value of the 4 in 84,506? = 4000 (A) · What is the value of the 7 in 387,525? = 7000 (C) · What is the value of the 8 in 618,934? = 8000 (R) · What is the value of the 9 in 50,193? = 90 (O) · What is the value of the 6 in 86,929? = 6000 (E) · What is the value of the 6 in 171,067? = 60 (I)

Clue 4 (Addition): "A CURLY TOP HAIR WAS FOUND ON THE TURF"

2646 + 3622 = 6268 (A) · 3536 + 2180 = 5716 (P) · 857 + 1779 = 2636 (E) · 4733 + 3944 = 8677 (O) · 1337 + 2007 = 3344 (C) · 5671 + 3065 = 8736 (L) · 6034 + 2912 = 8946 (N) · 3680 + 5026 = 8706 (I) · 3114 + 6323 = 9437 (W) · 623 + 1429 = 2052 (H) · 5160 + 3527 = 8687 (D) · 6397 + 3117 = 9514 (F) · 3843 + 2176 = 6019 (S) · 2229 + 4024 = 6253 (T) · 2544 + 1301 = 3845 (Y) · 2823 + 5457 = 8280 (R) · 2596 + 5298 = 7894 (U)

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

12 ÷ 12 = 1 · 15 ÷ 3 = 5 · 18 ÷ 9 = 2 · 108 ÷ 12 = 9 · 99 ÷ 9 = 11 · 40 ÷ 5 = 8 · 12 ÷ 2 = 6 · 70 ÷ 10 = 7 · 60 ÷ 5 = 12 · 21 ÷ 7 = 3 · 24 ÷ 6 = 4