The Case of the Missing Golden Cup

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

Detective: _____ **Date:** _____

The Golden Cup has been stolen right out of the stadium trophy case! The Championship Game is tomorrow, and the arena is in a panic. The thief ran across the field and escaped through the locker rooms. We need a top soccer detective to track the clues, analyze the match tape, and find 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 sneaky striker is _____

Possible suspects

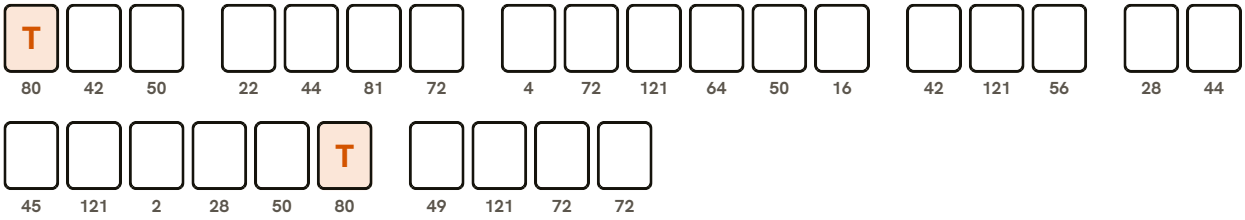
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	SPECIAL GEAR	DOMINANT KICKING FOOT	STARDUST HAIR	SECRET WEAKNESS
Megan Rapinoe	wall jump	magnet ball	right footed kicker	blue ponytail	penalty kicks
Son Heung Min	wall jump	whistle blaster	left footed kicker	spiky neon headband	penalty kicks
Sophia Smith	super curve shot	whistle blaster	left footed kicker	spiky neon headband	penalty kicks
Kylian Mbappe	super goalie dive	sticky shin guards	right footed kicker	spiky neon headband	penalty kicks
Kevin De Bruyne	wall jump	sticky shin guards	left footed kicker	green hair gel	penalty kicks
Sam Kerr	wall jump	sticky shin guards	left footed kicker	spiky neon headband	muddy grass
Mohamed Salah	super curve shot	rocket cleats	left footed kicker	spiky neon headband	loud whistles
Antoine Griezmann	wall jump	rocket cleats	left footed kicker	spiky neon headband	muddy grass
Jude Bellingham	super curve shot	laser goalie gloves	left footed kicker	spiky neon headband	loud whistles
Bukayo Saka	wall jump	laser goalie gloves	right footed kicker	spiky neon headband	muddy grass
Rose Lavelle	super goalie dive	sticky shin guards	left footed kicker	spiky neon headband	penalty kicks
Luka Modric	wall jump	rocket cleats	right footed kicker	spiky neon headband	muddy grass
Marta	super goalie dive	magnet ball	left footed kicker	spiky neon headband	penalty kicks
Lionel Messi	giant field kick	laser goalie gloves	right footed kicker	green hair gel	loud whistles
Robert Lewandowski	hyper speed sprint	magnet ball	right footed kicker	green hair gel	penalty kicks
Harry Kane	super goalie dive	laser goalie gloves	left footed kicker	green hair gel	penalty kicks
Alisson Becker	super goalie dive	rocket cleats	left footed kicker	green hair gel	muddy grass
Erling Haaland	giant field kick	magnet ball	left footed kicker	spiky neon headband	muddy grass
Virgil van Dijk	hyper speed sprint	laser goalie gloves	left footed kicker	green hair gel	penalty kicks
Cristiano Ronaldo	giant field kick	laser goalie gloves	left footed kicker	spiky neon headband	penalty kicks
Neymar Jr	giant field kick	rocket cleats	left footed kicker	green hair gel	penalty kicks

CLUE 1 Multiplication facts (1-12)

To find the first clue, we need to count the boxes of soccer balls stacked in neat rows on the equipment truck.

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



10 × 8 = ☐ → T	8 × 2 = ☐ → R	6 × 7 = ☐ → H	7 × 7 = ☐ → B
7 × 4 = ☐ → N	11 × 11 = ☐ → A	10 × 5 = ☐ → E	
4 × 11 = ☐ → O	2 × 1 = ☐ → G	8 × 7 = ☐ → S	9 × 9 = ☐ → U
6 × 12 = ☐ → L	5 × 9 = ☐ → M	4 × 1 = ☐ → P	8 × 8 = ☐ → Y
2 × 11 = ☐ → F			

Scratch space:

CLUE 2 Subtraction

> The sneaky rival took some orange cones from our practice bin, so we must calculate how many cones are left.

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

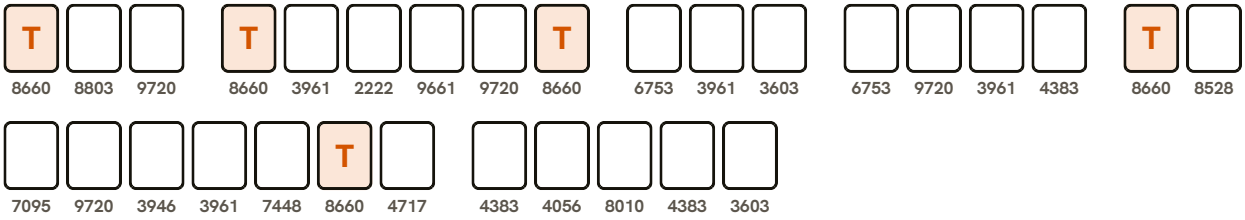
7165 - 4722 = ☐ → T	9103 - 188 = ☐ → S	12380 - 4324 = ☐ → P
8859 - 3866 = ☐ → E	2603 - 1077 = ☐ → R	4581 - 288 = ☐ → O
9411 - 2028 = ☐ → F	11690 - 4383 = ☐ → I	5846 - 4252 = ☐ → H
7011 - 2208 = ☐ → K	9169 - 4550 = ☐ → L	

Scratch space:

CLUE 3 Addition

We can unlock the gear shed by adding up all the goals scored by our star strikers this season.

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



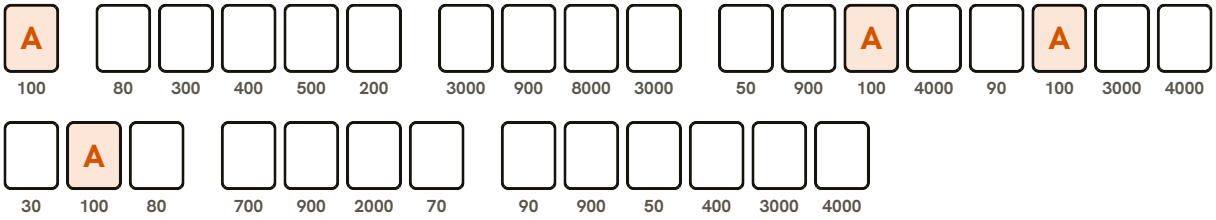
4031 + 4629 = ☐ → T	1489 + 2567 = ☐ → I	3917 + 2836 = ☐ → W
4783 + 4878 = ☐ → G	4910 + 3893 = ☐ → H	4244 + 3766 = ☐ → C
1984 + 1619 = ☐ → S	1249 + 2697 = ☐ → N	3806 + 4722 = ☐ → O
2803 + 1580 = ☐ → K	1572 + 3145 = ☐ → Y	2913 + 4182 = ☐ → P
2160 + 1801 = ☐ → A	4171 + 3277 = ☐ → L	6145 + 3575 = ☐ → E
1298 + 924 = ☐ → R		

Scratch space:

CLUE 4 Place value

The digital scoreboard flashed a weird number, and we need to find the value of the digit in the tens place.

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



What is the value of the 1 in 182? ☐ → A

What is the value of the 7 in 2,276? ☐ → T

What is the value of the 4 in 94,688? ☐ → D

What is the value of the 7 in 746? ☐ → L

What is the value of the 5 in 577? ☐ → K

What is the value of the 8 in 28,161? ☐ → O

What is the value of the 8 in 287? ☐ → S

What is the value of the 3 in 83,672? ☐ → N

What is the value of the 9 in 6,902? ☐ → E

What is the value of the 5 in 1,152? ☐ → H

What is the value of the 2 in 241? ☐ → Y

What is the value of the 2 in 2,745? ☐ → F

What is the value of the 3 in 6,937? ☐ → W

What is the value of the 3 in 356? ☐ → P

What is the value of the 9 in 390? ☐ → B

What is the value of the 4 in 8,406? ☐ → I

Scratch space:

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

> To pack up, we must divide the practice pennies equally among the group leaders to see what remains.

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:

108 ÷ 9 = ☐ | 44 ÷ 11 = ☐ | 21 ÷ 7 = ☐ | 96 ÷ 12 = ☐ | 60 ÷ 12 = ☐

45 ÷ 5 = ☐ | 42 ÷ 7 = ☐ | 28 ÷ 4 = ☐ | 10 ÷ 5 = ☐ | 6 ÷ 6 = ☐

60 ÷ 6 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain charges with hyper speed sprint, then distracts the crowd with a whistle blaster.
2. The villain makes a super goalie dive, then steals the game coin using a magnet ball.
3. The villain blasts a super curve shot, then distracts the crowd with a whistle blaster.
4. The villain performs a giant field kick, then blocks the pursuit with laser goalie gloves.
5. The villain performs a giant field kick, then grabs the trophy with sticky shin guards.
6. The villain blasts a super curve shot, then grabs the trophy with sticky shin guards.
7. The villain charges with hyper speed sprint, then grabs the trophy with sticky shin guards.
8. The villain charges with hyper speed sprint, then zooms away using rocket cleats.
9. The villain performs a giant field kick, then distracts the crowd with a whistle blaster.
10. The villain makes a super goalie dive, then blocks the pursuit with laser goalie gloves.
11. The villain leaps with a wall jump, then distracts the crowd with a whistle blaster.
12. The villain makes a super goalie dive, then grabs the trophy with sticky shin guards.

TEACHER / PARENT

Answer Key

The Case of the Missing Golden Cup

Culprit: Son Heung Min

wall jump · whistle blaster · left footed kicker · spiky neon headband · penalty kicks

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE FOUL PLAYER HAS NO MAGNET BALL"

10 × 8 = 80 (T) · 8 × 2 = 16 (R) · 6 × 7 = 42 (H) · 7 × 7 = 49 (B) · 7 × 4 = 28 (N) · 11 × 11 = 121 (A) · 10 × 5 = 50 (E) · 4 × 11 = 44 (O) · 2 × 1 = 2 (G) · 8 × 7 = 56 (S) · 9 × 9 = 81 (U) · 6 × 12 = 72 (L) · 5 × 9 = 45 (M) · 4 × 1 = 4 (P) · 8 × 8 = 64 (Y) · 2 × 11 = 22 (F)

Clue 2 (Subtraction): "THE STRIKER PREFERS THE LEFT FOOT"

7165 - 4722 = 2443 (T) · 9103 - 188 = 8915 (S) · 12380 - 4324 = 8056 (P) · 8859 - 3866 = 4993 (E) · 2603 - 1077 = 1526 (R) · 4581 - 288 = 4293 (O) · 9411 - 2028 = 7383 (F) · 11690 - 4383 = 7307 (I) · 5846 - 4252 = 1594 (H) · 7011 - 2208 = 4803 (K) · 9169 - 4550 = 4619 (L)

Clue 3 (Addition): "THE TARGET WAS WEAK TO PENALTY KICKS"

4031 + 4629 = 8660 (T) · 1489 + 2567 = 4056 (I) · 3917 + 2836 = 6753 (W) · 4783 + 4878 = 9661 (G) · 4910 + 3893 = 8803 (H) · 4244 + 3766 = 8010 (C) · 1984 + 1619 = 3603 (S) · 1249 + 2697 = 3946 (N) · 3806 + 4722 = 8528 (O) · 2803 + 1580 = 4383 (K) · 1572 + 3145 = 4717 (Y) · 2913 + 4182 = 7095 (P) · 2160 + 1801 = 3961 (A) · 4171 + 3277 = 7448 (L) · 6145 + 3575 = 9720 (E) · 1298 + 924 = 2222 (R)

Clue 4 (Place value): "A SPIKY NEON HEADBAND WAS LEFT BEHIND"

What is the value of the 1 in 182? = 100 (A) · What is the value of the 7 in 2,276? = 70 (T) · What is the value of the 4 in 94,688? = 4000 (D) · What is the value of the 7 in 746? = 700 (L) · What is the value of the 5 in 577? = 500 (K) · What is the value of the 8 in 28,161? = 8000 (O) · What is the value of the 8 in 287? = 80 (S) · What is the value of the 3 in 83,672? = 3000 (N) · What is the value of the 9 in 6,902? = 900 (E) · What is the value of the 5 in 1,152? = 50 (H) · What is the value of the 2 in 241? = 200 (Y) · What is the value of the 2 in 2,745? = 2000 (F) · What is the value of the 3 in 6,937? = 30 (W) · What is the value of the 3 in 356? = 300 (P) · What is the value of the 9 in 390? = 90 (B) · What is the value of the 4 in 8,406? = 400 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Son Heung Min

108 ÷ 9 = 12 · 44 ÷ 11 = 4 · 21 ÷ 7 = 3 · 96 ÷ 12 = 8 · 60 ÷ 12 = 5 · 45 ÷ 5 = 9 · 42 ÷ 7 = 6 · 28 ÷ 4 = 7 · 10 ÷ 5 = 2 · 6 ÷ 6 = 1 · 60 ÷ 6 = 10