The Case of the Missing Golden Cup

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

Detective: _____ **Date:** _____

On the night before the big final, the Golden Cup vanished from its glass case at Sunnyside Stadium. A guard saw someone sprint across the wet field and slip out a side gate. It is up to you to track down the Pitch Bandit 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 Pitch Bandit is _____

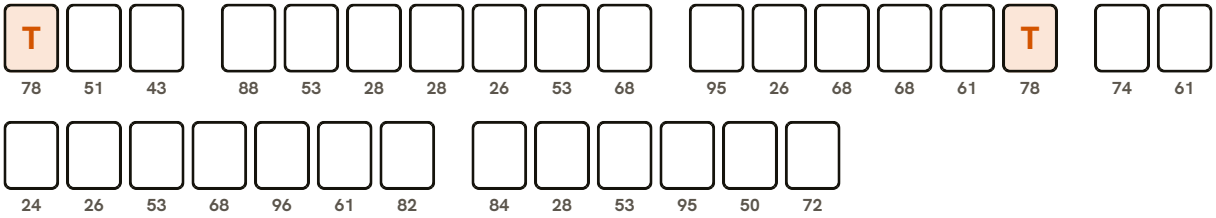
Possible suspects

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

NAME	SIGNATURE MOVE	BACKUP TRICK	WITNESS SAW	HAIR COLOR	WEAK SPOT
Emma Park	goalkeeper saves	no look passing	girl	red	loud whistles
Ravi Patel	goalkeeper saves	long throw ins	girl	red	bright lights
Hana Kim	diving headers	no look passing	girl	blonde	loud whistles
Jack Donnelly	goalkeeper saves	rocket shots	girl	blonde	loud whistles
Leo Ramos	diving headers	sliding tackles	girl	red	loud whistles
Ava Lindqvist	curved free kicks	rocket shots	girl	black	muddy grass
Andre Dubois	lightning dribbling	rainbow flicks	girl	red	loud whistles
Stella Knox	bicycle kicks	no look passing	girl	blonde	loud whistles
Kojo Mensah	lightning dribbling	no look passing	girl	red	loud whistles
Sam Okafor	goalkeeper saves	rocket shots	girl	blonde	muddy grass
Sofia Mendez	bicycle kicks	rocket shots	boy	blonde	bright lights
Diego Torres	curved free kicks	rocket shots	boy	blonde	bright lights
Felix Moreno	bicycle kicks	rocket shots	girl	red	bright lights
Zoe Bright	diving headers	no look passing	girl	red	loud whistles
Mia Tanaka	lightning dribbling	sliding tackles	boy	red	loud whistles
Marco Bianchi	bicycle kicks	sliding tackles	boy	red	loud whistles
Mateo Reyes	curved free kicks	long throw ins	boy	red	loud whistles
Ruby Fields	diving headers	rocket shots	boy	red	loud whistles
Nina Volkov	diving headers	long throw ins	girl	red	muddy grass
Tariq Said	goalkeeper saves	rainbow flicks	girl	red	loud whistles
Priya Nair	diving headers	rocket shots	girl	red	muddy grass

CLUE 1 Place value (tens & ones)

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

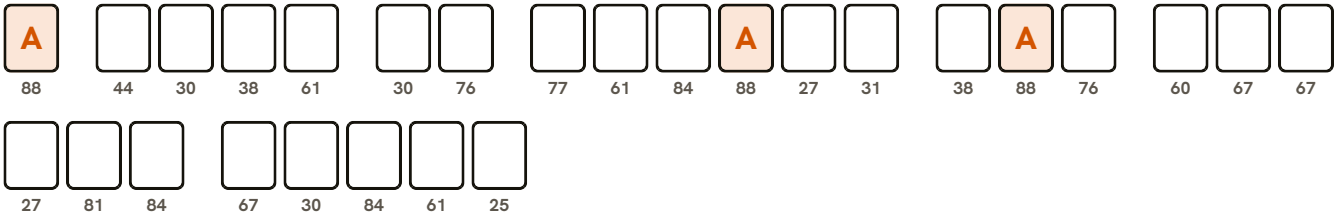


What number has 7 tens and 8 ones?		T	What number has 5 tens and 1 one?		H	What number has 4 tens and 3 ones?		E
What number has 8 tens and 8 ones?		V	What number has 5 tens and 3 ones?		I	What number has 2 tens and 8 ones?		L
What number has 2 tens and 6 ones?		A	What number has 6 tens and 8 ones?		N	What number has 9 tens and 5 ones?		C
What number has 6 tens and 1 one?		O	What number has 7 tens and 4 ones?		D	What number has 2 tens and 4 ones?		R
What number has 9 tens and 6 ones?		B	What number has 8 tens and 2 ones?		W	What number has 8 tens and 4 ones?		F
What number has 5 tens and 0 ones?		K	What number has 7 tens and 2 ones?		S			

Scratch space:

CLUE 2 Addition

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

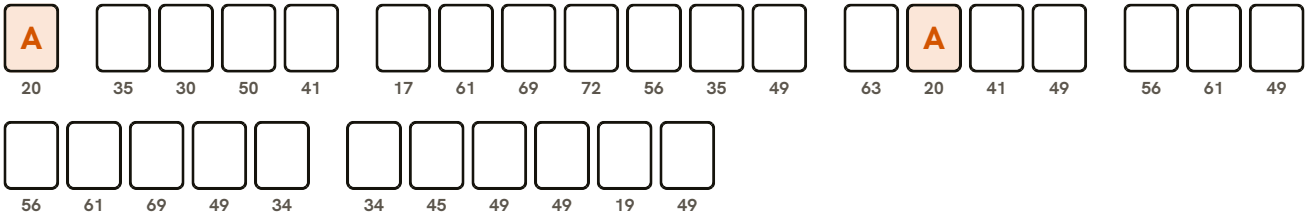


34 + 54 =		A	31 + 13 =		G	9 + 21 =		I
14 + 24 =		R	39 + 22 =		L	47 + 29 =		N
34 + 43 =		C	56 + 28 =		E	13 + 14 =		T
17 + 14 =		S	40 + 20 =		O	36 + 31 =		F
49 + 32 =		H	17 + 8 =		D			

Scratch space:

CLUE 3 Subtraction

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

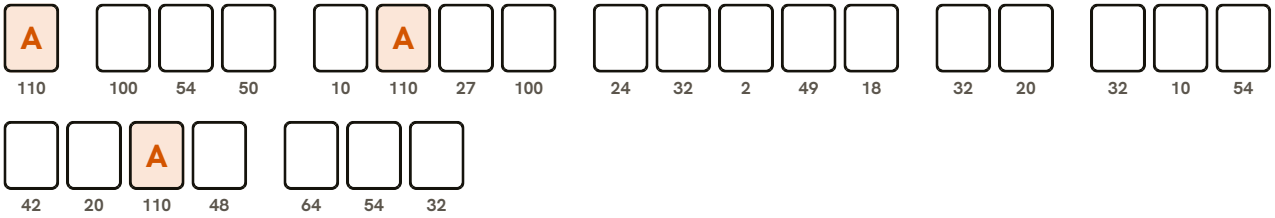


46 - 26 =		A	42 - 7 =		L	54 - 24 =		O
78 - 28 =		U	79 - 38 =		D	38 - 21 =		W
76 - 15 =		H	79 - 10 =		I	105 - 33 =		S
80 - 24 =		T	60 - 11 =		E	103 - 40 =		M
50 - 16 =		F	85 - 40 =		R	33 - 14 =		Z

Scratch space:

CLUE 4 Multiplication facts (1-12)

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



10 × 11 =		A	10 × 10 =		R	9 × 6 =		E
10 × 5 =		D	1 × 10 =		H	9 × 3 =		I
4 × 6 =		S	4 × 8 =		T	1 × 2 =		U
7 × 7 =		C	2 × 9 =		K	10 × 2 =		O
6 × 7 =		G	6 × 8 =		L	8 × 8 =		N

Scratch space:

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

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:

10 ÷ 1 = ☐	70 ÷ 10 = ☐	5 ÷ 5 = ☐
48 ÷ 8 = ☐	24 ÷ 12 = ☐	15 ÷ 5 = ☐
20 ÷ 5 = ☐	45 ÷ 9 = ☐	36 ÷ 3 = ☐
72 ÷ 8 = ☐	32 ÷ 4 = ☐	

Step 2 - cross out the sentence with each answer:

1. The villain dives in for a header, then sends a sneaky no look pass.
2. The villain leaps into a bicycle kick, then sends a sneaky no look pass.
3. The villain bends a free kick over the wall, then flicks the ball overhead.
4. The villain dives to snatch the ball, then hurls a long throw in.
5. The villain dribbles past every guard, then blasts a rocket shot.
6. The villain bends a free kick over the wall, then slides in for a tackle.
7. The villain dribbles past every guard, then sends a sneaky no look pass.
8. The villain bends a free kick over the wall, then blasts a rocket shot.
9. The villain dribbles past every guard, then hurls a long throw in.
10. The villain dives to snatch the ball, then sends a sneaky no look pass.
11. The villain dives in for a header, then slides in for a tackle.
12. The villain dives to snatch the ball, then blasts a rocket shot.

TEACHER / PARENT

Answer Key

The Case of the Missing Golden Cup

Culprit: Leo Ramos

diving headers · sliding tackles · girl · red · loud whistles

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value (tens & ones)): "THE VILLAIN CANNOT DO RAINBOW FLICKS"

What number has 7 tens and 8 ones? = 78 (T) · What number has 5 tens and 1 one? = 51 (H) · What number has 4 tens and 3 ones? = 43 (E) · What number has 8 tens and 8 ones? = 88 (V) · What number has 5 tens and 3 ones? = 53 (I) · What number has 2 tens and 8 ones? = 28 (L) · What number has 2 tens and 6 ones? = 26 (A) · What number has 6 tens and 8 ones? = 68 (N) · What number has 9 tens and 5 ones? = 95 (C) · What number has 6 tens and 1 one? = 61 (O) · What number has 7 tens and 4 ones? = 74 (D) · What number has 2 tens and 4 ones? = 24 (R) · What number has 9 tens and 6 ones? = 96 (B) · What number has 8 tens and 2 ones? = 82 (W) · What number has 8 tens and 4 ones? = 84 (F) · What number has 5 tens and 0 ones? = 50 (K) · What number has 7 tens and 2 ones? = 72 (S)

Clue 2 (Addition): "A GIRL IN CLEATS RAN OFF THE FIELD"

34 + 54 = 88 (A) · 31 + 13 = 44 (G) · 9 + 21 = 30 (I) · 14 + 24 = 38 (R) · 39 + 22 = 61 (L) · 47 + 29 = 76 (N) · 34 + 43 = 77 (C) · 56 + 28 = 84 (E) · 13 + 14 = 27 (T) · 17 + 14 = 31 (S) · 40 + 20 = 60 (O) · 36 + 31 = 67 (F) · 49 + 32 = 81 (H) · 17 + 8 = 25 (D)

Clue 3 (Subtraction): "A LOUD WHISTLE MADE THE THIEF FREEZE"

46 - 26 = 20 (A) · 42 - 7 = 35 (L) · 54 - 24 = 30 (O) · 78 - 28 = 50 (U) · 79 - 38 = 41 (D) · 38 - 21 = 17 (W) · 76 - 15 = 61 (H) · 79 - 10 = 69 (I) · 105 - 33 = 72 (S) · 80 - 24 = 56 (T) · 60 - 11 = 49 (E) · 103 - 40 = 63 (M) · 50 - 16 = 34 (F) · 85 - 40 = 45 (R) · 33 - 14 = 19 (Z)

Clue 4 (Multiplication facts (1-12)): "A RED HAIR STUCK TO THE GOAL NET"

10 × 11 = 110 (A) · 10 × 10 = 100 (R) · 9 × 6 = 54 (E) · 10 × 5 = 50 (D) · 1 × 10 = 10 (H) · 9 × 3 = 27 (I) · 4 × 6 = 24 (S) · 4 × 8 = 32 (T) · 1 × 2 = 2 (U) · 7 × 7 = 49 (C) · 2 × 9 = 18 (K) · 10 × 2 = 20 (O) · 6 × 7 = 42 (G) · 6 × 8 = 48 (L) · 8 × 8 = 64 (N)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Leo Ramos

10 ÷ 1 = 10 · 70 ÷ 10 = 7 · 5 ÷ 5 = 1 · 48 ÷ 8 = 6 · 24 ÷ 12 = 2 · 15 ÷ 5 = 3 · 20 ÷ 5 = 4 · 45 ÷ 9 = 5 · 36 ÷ 3 = 12 · 72 ÷ 8 = 9 · 32 ÷ 4 = 8