



The Case of the Missing Golden Cup

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

Detective: _____ Date: _____

Someone stole the Golden Cup right before the big final game! Coach Alex needs your detective skills to find the cleat thief 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 cleat thief 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	SECRET GEAR	KICKING FOOT	HAIR STYLE	MATCH WEAKNESS
Alex Morgan	SUPER HEADER	TURBO HEADBAND	LEFT FOOTED KICK	SPIKED ORANGE HAIR	MUDDY GRASS
Megan Rapinoe	LASER KICK	SHIELD SOCKS	RIGHT FOOTED KICK	NEON GREEN MOHAWK	SQUEAKY WHISTLE
Neymar Jr	GOLDEN BOOTS KICK	ROCKET JERSEY	RIGHT FOOTED KICK	SPIKED ORANGE HAIR	SQUEAKY WHISTLE
Lionel Messi	LASER KICK	MAGNET SHIN GUARDS	LEFT FOOTED KICK	NEON GREEN MOHAWK	SQUEAKY WHISTLE
Alexia Putellas	STICKY GLOVES CATCH	TURBO HEADBAND	LEFT FOOTED KICK	SPIKED ORANGE HAIR	SQUEAKY WHISTLE
Alisson Becker	GOLDEN BOOTS KICK	PHANTOM CLEATS	RIGHT FOOTED KICK	BLUE PONYTAIL	MUDDY GRASS
Kylian Mbappe	SONIC WHISTLE BLAST	ROCKET JERSEY	LEFT FOOTED KICK	BLUE PONYTAIL	YELLOW CARD
Marcus Rashford	SONIC WHISTLE BLAST	PHANTOM CLEATS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	SQUEAKY WHISTLE
Heung Min Son	LASER KICK	MAGNET SHIN GUARDS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	YELLOW CARD
Luka Modric	SONIC WHISTLE BLAST	SHIELD SOCKS	LEFT FOOTED KICK	NEON GREEN MOHAWK	SQUEAKY WHISTLE
Mohamed Salah	STICKY GLOVES CATCH	MAGNET SHIN GUARDS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	YELLOW CARD
Guillermo Ochoa	SONIC WHISTLE BLAST	SHIELD SOCKS	LEFT FOOTED KICK	BLUE PONYTAIL	YELLOW CARD
Alphonso Davies	STICKY GLOVES CATCH	ROCKET JERSEY	LEFT FOOTED KICK	NEON GREEN MOHAWK	SQUEAKY WHISTLE
Christian Pulisic	LASER KICK	MAGNET SHIN GUARDS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	SQUEAKY WHISTLE
Cristiano Ronaldo	STICKY GLOVES CATCH	PHANTOM CLEATS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	MUDDY GRASS
Erling Haaland	SONIC WHISTLE BLAST	SHIELD SOCKS	LEFT FOOTED KICK	NEON GREEN MOHAWK	YELLOW CARD
Kevin De Bruyne	GOLDEN BOOTS KICK	ROCKET JERSEY	LEFT FOOTED KICK	SPIKED ORANGE HAIR	MUDDY GRASS
Harry Kane	LASER KICK	MAGNET SHIN GUARDS	RIGHT FOOTED KICK	NEON GREEN MOHAWK	SQUEAKY WHISTLE
Bukayo Saka	SUPER HEADER	MAGNET SHIN GUARDS	LEFT FOOTED KICK	NEON GREEN MOHAWK	SQUEAKY WHISTLE
Marta Vieira	STICKY GLOVES CATCH	MAGNET SHIN GUARDS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	SQUEAKY WHISTLE
Gio Reyna	SONIC WHISTLE BLAST	SHIELD SOCKS	LEFT FOOTED KICK	SPIKED ORANGE HAIR	SQUEAKY WHISTLE

CLUE 1
Multiplication facts (1-12)

The coach counts the match balls. They are lined up in four rows with six balls in each row. Multiplying these gives us our first clue about the thief.

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

T																T
88	48	36	2	49	9	9	14	49	27	63	15	36	56	27	15	88
								T						T		
48	14	2	36	121	48	14	27	88	15	64	3	9	36	14	88	56

$11 \times 8 = \square \rightarrow$ T	$3 \times 12 = \square \rightarrow$ E	$7 \times 9 = \square \rightarrow$ D	
$7 \times 7 = \square \rightarrow$ I	$11 \times 11 = \square \rightarrow$ P	$7 \times 8 = \square \rightarrow$ S	
$3 \times 5 = \square \rightarrow$ O	$8 \times 8 = \square \rightarrow$ M	$1 \times 3 = \square \rightarrow$ C	$1 \times 2 = \square \rightarrow$ V
$2 \times 7 = \square \rightarrow$ A	$3 \times 9 = \square \rightarrow$ N	$12 \times 4 = \square \rightarrow$ H	$1 \times 9 = \square \rightarrow$ L

Scratch space:

CLUE 2
Place value (tens & ones)

We found a jersey tag near the benches. The digit in the tens place is much larger than the ones place. Looking at this value reveals the next clue.

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

T 66	13	26	71	50	18	18	90	50	53	46	50	41	46	98	30	50	T 66	13
T 66	13	26	18	26	40	T 66	40	43	43	T 66	43	53	18	21				

What number has 6 tens and 6 ones? →

T

What number has 4 tens and 6 ones? →

K

What number has 4 tens and 1 one? →

C

What number has 9 tens and 0 ones? →

A

What number has 4 tens and 0 ones? →

F

What number has 7 tens and 1 one? →

V

What number has 4 tens and 3 ones? →

O

What number has 5 tens and 3 ones? →

N

What number has 2 tens and 6 ones? →

E

What number has 1 ten and 3 ones? →

H

What number has 1 ten and 8 ones? →

L

What number has 9 tens and 8 ones? →

S

What number has 5 tens and 0 ones? →

I

What number has 2 tens and 1 one? →

Y

What number has 3 tens and 0 ones? →

W

Scratch space:

CLUE 3 Addition

The referee added up all the foul cards from the weekend games. Adding the red and yellow cards gives us a secret sum that points to a clue.

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

A					A																	
358	985	490	899	239	358	875	468	790	769	783	985	567	625	239	985	567	913	781	985			
								A														
567	769	239	277	783	202	985	567	358	202	567	625	468										

$129 + 229 = \square \rightarrow$ A	$205 + 420 = \square \rightarrow$ L	$361 + 429 = \square \rightarrow$ W
$548 + 437 = \square \rightarrow$ S	$330 + 451 = \square \rightarrow$ P	$491 + 278 = \square \rightarrow$ H
$120 + 157 = \square \rightarrow$ M	$73 + 166 = \square \rightarrow$ E	$302 + 265 = \square \rightarrow$ T
$478 + 305 = \square \rightarrow$ I	$213 + 255 = \square \rightarrow$ Y	$586 + 313 = \square \rightarrow$ U
$219 + 271 = \square \rightarrow$ Q	$465 + 448 = \square \rightarrow$ O	$536 + 339 = \square \rightarrow$ K
$97 + 105 = \square \rightarrow$ N		

Scratch space:

CLUE 4 Subtraction

We checked the air pressure of the game ball. We subtracted the low pressure from the target pressure to find the difference and get our next clue.

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

S																			S
681	748	209	675	517	266	762	338	137	877	701	517	287	137	209	338	592	137	681	
195	517	636	703	762	877	703	287	517	703	784	338	636							

$819 - 138 = \square \rightarrow \text{S}$

$926 - 251 = \square \rightarrow \text{K}$

$776 - 184 = \square \rightarrow \text{W}$

$671 - 333 = \square \rightarrow \text{R}$

$978 - 275 = \square \rightarrow \text{T}$

$903 - 26 = \square \rightarrow \text{N}$

$1149 - 365 = \square \rightarrow \text{U}$

$508 - 242 = \square \rightarrow \text{D}$

$984 - 348 = \square \rightarrow \text{F}$

$1010 - 309 = \square \rightarrow \text{G}$

$251 - 114 = \square \rightarrow \text{A}$

$498 - 211 = \square \rightarrow \text{H}$

$770 - 22 = \square \rightarrow \text{P}$

$825 - 308 = \square \rightarrow \text{E}$

$424 - 215 = \square \rightarrow \text{I}$

$417 - 222 = \square \rightarrow \text{L}$

$960 - 198 = \square \rightarrow \text{O}$

Scratch space:

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

To celebrate, the captain shared twenty-four orange slices equally among eight players. Dividing them up gives a number that unlocks the final 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:

$20 \div 5 = \boxed{}$

$18 \div 6 = \boxed{}$

$16 \div 8 = \boxed{}$

$54 \div 9 = \boxed{}$

$8 \div 8 = \boxed{}$

$45 \div 5 = \boxed{}$

$40 \div 4 = \boxed{}$

$5 \div 1 = \boxed{}$

$14 \div 2 = \boxed{}$

$108 \div 9 = \boxed{}$

$32 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scores with a super header, then slips away wearing phantom cleats.
2. The villain makes a save with sticky gloves, then dribbles fast with a turbo headband.
3. The villain blows a loud sonic whistle, then blocks defenders with shield socks.
4. The villain fires a powerful laser kick, then escapes using magnet shin guards.
5. The villain makes a save with sticky gloves, then slips away wearing phantom cleats.
6. The villain unleashes a golden boots kick, then blocks defenders with shield socks.
7. The villain scores with a super header, then blocks defenders with shield socks.
8. The villain fires a powerful laser kick, then slips away wearing phantom cleats.
9. The villain blows a loud sonic whistle, then slips away wearing phantom cleats.
10. The villain fires a powerful laser kick, then zooms away in a rocket jersey.
11. The villain makes a save with sticky gloves, then escapes using magnet shin guards.
12. The villain blows a loud sonic whistle, then escapes using magnet shin guards.

Answer Key

The Case of the Missing Golden Cup

Culprit: Marta Vieira

STICKY GLOVES CATCH · MAGNET SHIN GUARDS · LEFT FOOTED KICK · SPIKED ORANGE HAIR · SQUEAKY WHISTLE

Trail: Start 21 → Clue 1 18 → Clue 2 15 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT HAVE PHANTOM CLEATS"

$11 \times 8 = 88$ (T) · $3 \times 12 = 36$ (E) · $7 \times 9 = 63$ (D) · $7 \times 7 = 49$ (I) · $11 \times 11 = 121$ (P) · $7 \times 8 = 56$ (S) · $3 \times 5 = 15$ (O) · $8 \times 8 = 64$ (M) · $1 \times 3 = 3$ (C) · $1 \times 2 = 2$ (V) · $2 \times 7 = 14$ (A) · $3 \times 9 = 27$ (N) · $12 \times 4 = 48$ (H) · $1 \times 9 = 9$ (L)

Clue 2 (Place value (tens & ones)): "THE VILLAIN KICKS WITH THE LEFT FOOT ONLY"

What number has 6 tens and 6 ones? = 66 (T) · What number has 4 tens and 6 ones? = 46 (K) · What number has 4 tens and 1 one? = 41 (C) · What number has 9 tens and 0 ones? = 90 (A) · What number has 4 tens and 0 ones? = 40 (F) · What number has 7 tens and 1 one? = 71 (V) · What number has 4 tens and 3 ones? = 43 (O) · What number has 5 tens and 3 ones? = 53 (N) · What number has 2 tens and 6 ones? = 26 (E) · What number has 1 ten and 3 ones? = 13 (H) · What number has 1 ten and 8 ones? = 18 (L) · What number has 9 tens and 8 ones? = 98 (S) · What number has 5 tens and 0 ones? = 50 (I) · What number has 2 tens and 1 one? = 21 (Y) · What number has 3 tens and 0 ones? = 30 (W)

Clue 3 (Addition): "A SQUEAKY WHISTLE STOPS THEM INSTANTLY"

$129 + 229 = 358$ (A) · $205 + 420 = 625$ (L) · $361 + 429 = 790$ (W) · $548 + 437 = 985$ (S) · $330 + 451 = 781$ (P) · $491 + 278 = 769$ (H) · $120 + 157 = 277$ (M) · $73 + 166 = 239$ (E) · $302 + 265 = 567$ (T) · $478 + 305 = 783$ (I) · $213 + 255 = 468$ (Y) · $586 + 313 = 899$ (U) · $219 + 271 = 490$ (Q) · $465 + 448 = 913$ (O) · $536 + 339 = 875$ (K) · $97 + 105 = 202$ (N)

Clue 4 (Subtraction): "SPIKED ORANGE HAIR WAS LEFT ON THE TURF"

$819 - 138 = 681$ (S) · $926 - 251 = 675$ (K) · $776 - 184 = 592$ (W) · $671 - 333 = 338$ (R) · $978 - 275 = 703$ (T) · $903 - 26 = 877$ (N) · $1149 - 365 = 784$ (U) · $508 - 242 = 266$ (D) · $984 - 348 = 636$ (F) · $1010 - 309 = 701$ (G) · $251 - 114 = 137$ (A) · $498 - 211 = 287$ (H) · $770 - 22 = 748$ (P) · $825 - 308 = 517$ (E) · $424 - 215 = 209$ (I) · $417 - 222 = 195$ (L) · $960 - 198 = 762$ (O)

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

$20 \div 5 = 4$ · $18 \div 6 = 3$ · $16 \div 8 = 2$ · $54 \div 9 = 6$ · $8 \div 8 = 1$ · $45 \div 5 = 9$ · $40 \div 4 = 10$ · $5 \div 1 = 5$ · $14 \div 2 = 7$ · $108 \div 9 = 12$ · $32 \div 4 = 8$