The Case of the Vanished Mascot

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

Detective: _____ **Date:** _____

Right before the big championship match, Sparky the mascot disappeared from the locker room. The golden cup was knocked over, and muddy cleat marks led across the empty field. It is up to you to figure out which sneaky player on the bench did it.

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 Cup Snatcher is _____

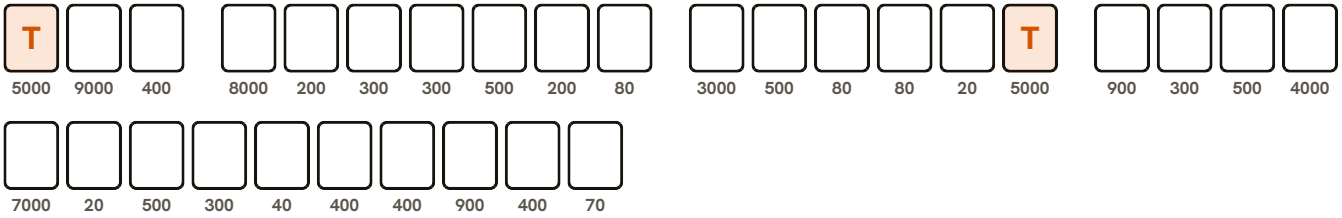
Possible suspects

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

NAME	SIGNATURE MOVE	FIELD POSITION	TEAM	CLEAT COLOR	WEAK SPOT
Pablo	powerful header	goalkeeper	girl	blue cleats	ticklish feet
Hugo	sliding tackle	goalkeeper	girl	blue cleats	ticklish feet
Lucy	bicycle kick	winger	girl	yellow cleats	slips on wet grass
Bruno	bicycle kick	striker	girl	yellow cleats	ticklish feet
Kofi	spinning dribble	midfielder	girl	yellow cleats	ticklish feet
Maya	sliding tackle	goalkeeper	girl	yellow cleats	slips on wet grass
Ella	sliding tackle	defender	girl	yellow cleats	slips on wet grass
Priya	sliding tackle	striker	girl	red cleats	scared of loud whistles
Yuki	sliding tackle	winger	girl	red cleats	ticklish feet
Jorge	sliding tackle	striker	girl	blue cleats	ticklish feet
Carla	bicycle kick	midfielder	boy	blue cleats	slips on wet grass
Theo	powerful header	defender	boy	yellow cleats	slips on wet grass
Marco	sliding tackle	midfielder	boy	blue cleats	scared of loud whistles
Mia	curving free kick	midfielder	boy	yellow cleats	ticklish feet
Felix	sliding tackle	goalkeeper	boy	red cleats	slips on wet grass
Ravi	curving free kick	striker	girl	blue cleats	scared of loud whistles
Sam	bicycle kick	midfielder	girl	yellow cleats	slips on wet grass
Lola	spinning dribble	striker	girl	yellow cleats	slips on wet grass
Tariq	powerful header	goalkeeper	girl	yellow cleats	scared of loud whistles
Aisha	sliding tackle	midfielder	boy	yellow cleats	ticklish feet
Nina	bicycle kick	winger	girl	red cleats	slips on wet grass

CLUE 1 Rounding

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

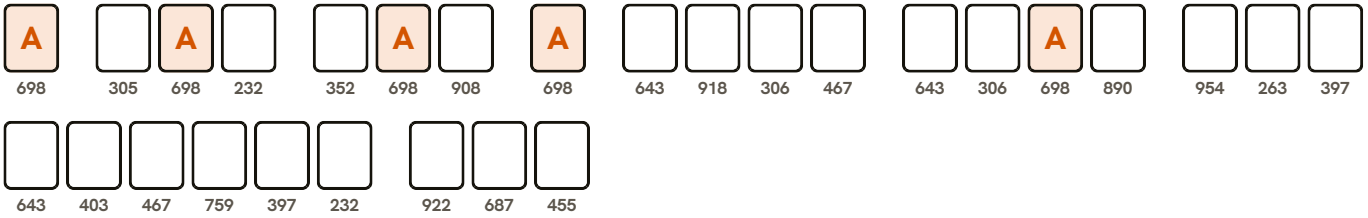


Round 4,611 to the nearest thousand		T	Round 408 to the nearest hundred		E	Round 492 to the nearest hundred		A
Round 6,762 to the nearest thousand		G	Round 3,886 to the nearest thousand		Y	Round 9,250 to the nearest thousand		H
Round 3,171 to the nearest thousand		C	Round 20 to the nearest ten		O	Round 889 to the nearest hundred		P
Round 39 to the nearest ten		K	Round 80 to the nearest ten		N	Round 7,894 to the nearest thousand		V
Round 72 to the nearest ten		R	Round 246 to the nearest hundred		I	Round 340 to the nearest hundred		L

Scratch space:

CLUE 2 Addition

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

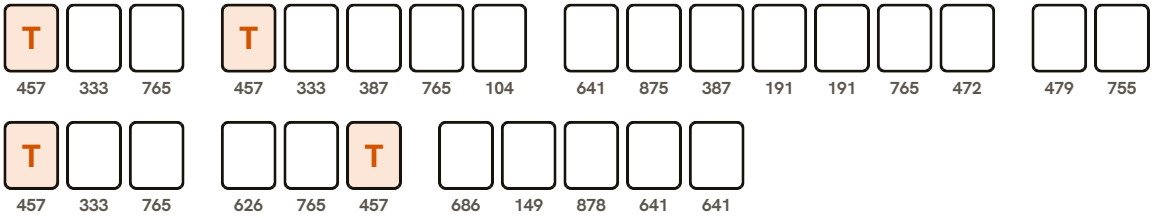


406 + 292 =		A	385 + 523 =		W	109 + 197 =		R
315 + 372 =		U	356 + 287 =		G	235 + 168 =		O
194 + 273 =		L	110 + 122 =		N	203 + 149 =		S
174 + 281 =		P	504 + 386 =		B	112 + 193 =		F
226 + 171 =		E	533 + 421 =		T	517 + 242 =		D
179 + 84 =		H	369 + 553 =		C	568 + 350 =		I

Scratch space:

CLUE 3 Subtraction

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

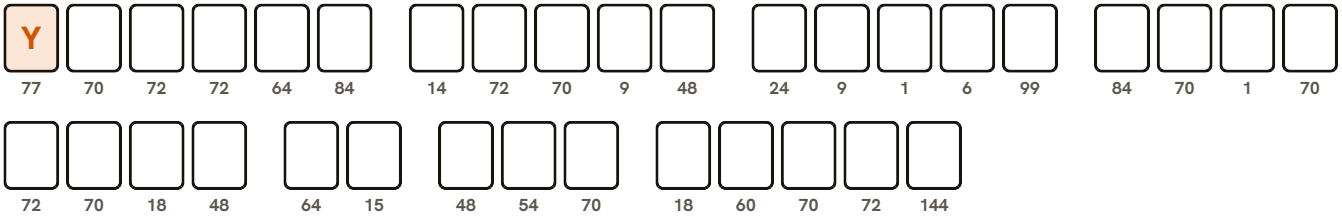


484 - 27 =		T	276 - 172 =		F	1086 - 331 =		N
735 - 109 =		W	757 - 116 =		S	331 - 140 =		P
1049 - 363 =		G	259 - 110 =		R	613 - 226 =		I
384 - 51 =		H	838 - 359 =		O	1157 - 279 =		A
607 - 135 =		D	1213 - 338 =		L	921 - 156 =		E

Scratch space:

CLUE 4 Multiplication facts (1-12)

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



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

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:

36 ÷ 3 = ☐

60 ÷ 12 = ☐

28 ÷ 4 = ☐

60 ÷ 6 = ☐

27 ÷ 9 = ☐

42 ÷ 7 = ☐

56 ÷ 7 = ☐

2 ÷ 1 = ☐

90 ÷ 10 = ☐

121 ÷ 11 = ☐

3 ÷ 3 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain weaves through with a spinning dribble, then runs the midfield.
2. The villain sweeps in a sliding tackle, then guards the goal.
3. The villain bends a curving free kick, then charges at the net.
4. The villain sweeps in a sliding tackle, then blocks the defenders.
5. The villain weaves through with a spinning dribble, then charges at the net.
6. The villain bends a curving free kick, then blocks the defenders.
7. The villain scores with a bicycle kick, then runs the midfield.
8. The villain leaps up for a powerful header, then guards the goal.
9. The villain scores with a bicycle kick, then blocks the defenders.
10. The villain leaps up for a powerful header, then charges at the net.
11. The villain weaves through with a spinning dribble, then guards the goal.
12. The villain scores with a bicycle kick, then races down the wing.

TEACHER / PARENT

Answer Key

The Case of the Vanished Mascot

Culprit: Ella

sliding tackle · defender · girl · yellow cleats · slips on wet grass

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN CANNOT PLAY GOALKEEPER"

Round 4,611 to the nearest thousand = 5000 (T) · Round 408 to the nearest hundred = 400 (E) · Round 492 to the nearest hundred = 500 (A) · Round 6,762 to the nearest thousand = 7000 (G) · Round 3,886 to the nearest thousand = 4000 (Y) · Round 9,250 to the nearest thousand = 9000 (H) · Round 3,171 to the nearest thousand = 3000 (C) · Round 20 to the nearest ten = 20 (O) · Round 889 to the nearest hundred = 900 (P) · Round 39 to the nearest ten = 40 (K) · Round 80 to the nearest ten = 80 (N) · Round 7,894 to the nearest thousand = 8000 (V) · Round 72 to the nearest ten = 70 (R) · Round 246 to the nearest hundred = 200 (I) · Round 340 to the nearest hundred = 300 (L)

Clue 2 (Addition): "A FAN SAW A GIRL GRAB THE GOLDEN CUP"

406 + 292 = 698 (A) · 385 + 523 = 908 (W) · 109 + 197 = 306 (R) · 315 + 372 = 687 (U) · 356 + 287 = 643 (G) · 235 + 168 = 403 (O) · 194 + 273 = 467 (L) · 110 + 122 = 232 (N) · 203 + 149 = 352 (S) · 174 + 281 = 455 (P) · 504 + 386 = 890 (B) · 112 + 193 = 305 (F) · 226 + 171 = 397 (E) · 533 + 421 = 954 (T) · 517 + 242 = 759 (D) · 179 + 84 = 263 (H) · 369 + 553 = 922 (C) · 568 + 350 = 918 (I)

Clue 3 (Subtraction): "THE THIEF SLIPPED ON THE WET GRASS"

484 - 27 = 457 (T) · 276 - 172 = 104 (F) · 1086 - 331 = 755 (N) · 735 - 109 = 626 (W) · 757 - 116 = 641 (S) · 331 - 140 = 191 (P) · 1049 - 363 = 686 (G) · 259 - 110 = 149 (R) · 613 - 226 = 387 (I) · 384 - 51 = 333 (H) · 838 - 359 = 479 (O) · 1157 - 279 = 878 (A) · 607 - 135 = 472 (D) · 1213 - 338 = 875 (L) · 921 - 156 = 765 (E)

Clue 4 (Multiplication facts (1-12)): "YELLOW CLEAT MARKS WERE LEFT ON THE FIELD"

7 × 11 = 77 (Y) · 12 × 12 = 144 (D) · 9 × 8 = 72 (L) · 1 × 1 = 1 (R) · 8 × 8 = 64 (O) · 6 × 3 = 18 (F) · 6 × 1 = 6 (K) · 9 × 6 = 54 (H) · 12 × 7 = 84 (W) · 9 × 1 = 9 (A) · 2 × 12 = 24 (M) · 12 × 4 = 48 (T) · 10 × 6 = 60 (I) · 11 × 9 = 99 (S) · 7 × 10 = 70 (E) · 5 × 3 = 15 (N) · 7 × 2 = 14 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Ella

36 ÷ 3 = 12 · 60 ÷ 12 = 5 · 28 ÷ 4 = 7 · 60 ÷ 6 = 10 · 27 ÷ 9 = 3 · 42 ÷ 7 = 6 · 56 ÷ 7 = 8 · 2 ÷ 1 = 2 · 90 ÷ 10 = 9 · 121 ÷ 11 = 11 · 3 ÷ 3 = 1