The Case of the Missing Championship Trophy

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

Detective: _____ **Date:** _____

Just before the big cup final at Star Stadium, the shiny championship trophy vanished from the locker room! A rogue player swapped the trophy with a squeaky rubber duck. Use your math clues to track down the prankster 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 Thief is _____

Possible suspects

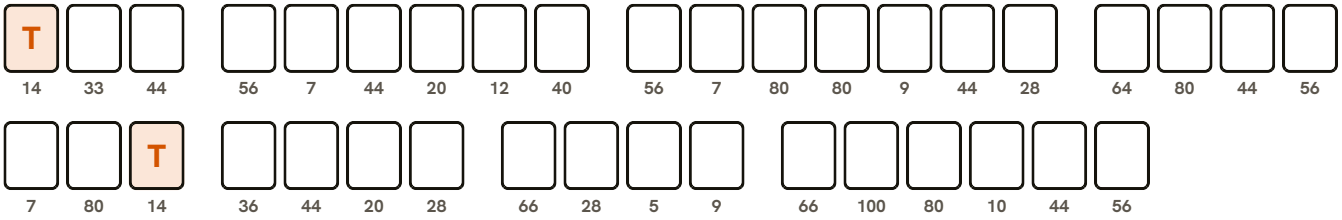
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIAL MOVE	SOCCER GEAR	KICKING FOOT	HAIR STYLE	PITCH HAZARD
Pivot Penny	Power Kick	Padded Jersey	Left Footed	Braided Hair	Loud Whistle
Samba Ben	Header Goal	Golden Cleats	Left Footed	Braided Hair	Muddy Ball
Corner Chris	Curve Shot	Captain Armband	Right Footed	Spiky Hair	Slick Grass
Cristiano Dash	Speed Dribble	Grip Gloves	Right Footed	Braided Hair	Loud Whistle
Header Hannah	Bicycle Kick	Golden Cleats	Right Footed	Braided Hair	Loud Whistle
Megan Tackle	Curve Shot	Neon Shin Guards	Left Footed	Braided Hair	Loud Whistle
Pele Swift	Curve Shot	Neon Shin Guards	Left Footed	Curly Hair	Loud Whistle
Striker Sue	Bicycle Kick	Captain Armband	Left Footed	Curly Hair	Loud Whistle
Maya Pass	Bicycle Kick	Golden Cleats	Left Footed	Braided Hair	Loud Whistle
Captain Clara	Speed Dribble	Golden Cleats	Left Footed	Spiky Hair	Muddy Ball
Forward Fred	Header Goal	Neon Shin Guards	Right Footed	Spiky Hair	Loud Whistle
Winger Wendy	Curve Shot	Grip Gloves	Left Footed	Braided Hair	Loud Whistle
Defender Dan	Power Kick	Golden Cleats	Right Footed	Braided Hair	Muddy Ball
Sam Kick	Curve Shot	Captain Armband	Left Footed	Braided Hair	Slick Grass
Leo Striker	Header Goal	Golden Cleats	Left Footed	Curly Hair	Loud Whistle
Coach Carter	Header Goal	Padded Jersey	Left Footed	Braided Hair	Slick Grass
Stopper Stan	Power Kick	Captain Armband	Right Footed	Braided Hair	Loud Whistle
Keeper Kevin	Bicycle Kick	Padded Jersey	Left Footed	Braided Hair	Loud Whistle
Mia Hammster	Speed Dribble	Padded Jersey	Left Footed	Spiky Hair	Slick Grass
Kylian Zoom	Speed Dribble	Padded Jersey	Left Footed	Curly Hair	Slick Grass
Alex Goal	Header Goal	Golden Cleats	Right Footed	Curly Hair	Slick Grass

CLUE 1 Multiplication facts (1-12)

Coach Clara arranges soccer cones in equal rows across the field to count them quickly before practice starts.

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



2 × 7 = ☐ → T

11 × 3 = ☐ → H

10 × 1 = ☐ → V

10 × 10 = ☐ → L

8 × 8 = ☐ → D

5 × 8 = ☐ → Y

6 × 11 = ☐ → G

7 × 4 = ☐ → R

4 × 9 = ☐ → W

2 × 10 = ☐ → A

9 × 1 = ☐ → P

12 × 1 = ☐ → K

7 × 8 = ☐ → S

5 × 1 = ☐ → I

4 × 11 = ☐ → E

1 × 7 = ☐ → N

8 × 10 = ☐ → O

Scratch space:

CLUE 2 Rounding

The large stadium digital display only shows rounded numbers for ticket entry counts at the gate.

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

| | | |

CLUE 3 Subtraction

> After a long drills session the team checks how many water bottles remain in the cool chest.

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



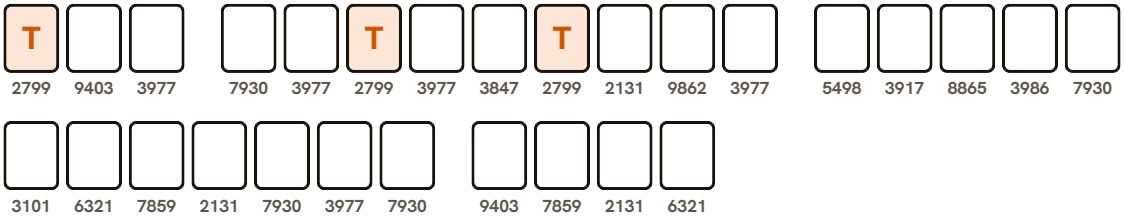
5318 - 3473 = ☐ → T	3027 - 362 = ☐ → L	12787 - 5000 = ☐ → G
6347 - 3046 = ☐ → U	8442 - 418 = ☐ → O	6511 - 2023 = ☐ → A
6673 - 2494 = ☐ → D	9074 - 2961 = ☐ → W	4464 - 2478 = ☐ → H
4554 - 1576 = ☐ → I	11410 - 2871 = ☐ → E	10283 - 4813 = ☐ → S

Scratch space:

CLUE 4 Addition

The assistant coach tallies up all the total practice passes from every player on the chart.

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



1960 + 839 = ☐ → T	1477 + 2509 = ☐ → N	3822 + 6040 = ☐ → V
986 + 2115 = ☐ → B	2321 + 3177 = ☐ → F	1711 + 2266 = ☐ → E
1201 + 930 = ☐ → I	6158 + 2707 = ☐ → U	4949 + 4454 = ☐ → H
3070 + 3251 = ☐ → R	3854 + 4076 = ☐ → D	2653 + 1264 = ☐ → O
2206 + 1641 = ☐ → C	5030 + 2829 = ☐ → A	

Scratch space:

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

> The referee divides all the fresh training bibs equally among the starter teams.

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:

60 ÷ 5 = ☐	20 ÷ 4 = ☐	30 ÷ 10 = ☐	4 ÷ 4 = ☐	49 ÷ 7 = ☐
54 ÷ 9 = ☐	50 ÷ 5 = ☐	6 ÷ 3 = ☐	81 ÷ 9 = ☐	4 ÷ 1 = ☐
24 ÷ 3 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain blasted a power shot, then laced up golden cleats.
2. The villain dribbled through defenders, then pulled on grip gloves.
3. The villain blasted a power shot, then zipped up a padded jersey.
4. The villain dribbled through defenders, then laced up golden cleats.
5. The villain landed a bicycle kick, then laced up golden cleats.
6. The villain headed the ball into the corner, then adjusted neon shin guards.
7. The villain headed the ball into the corner, then strapped on the captain armband.
8. The villain blasted a power shot, then pulled on grip gloves.
9. The villain landed a bicycle kick, then adjusted neon shin guards.
10. The villain dribbled through defenders, then adjusted neon shin guards.
11. The villain landed a bicycle kick, then zipped up a padded jersey.
12. The villain curved the ball into the net, then adjusted neon shin guards.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Trophy

Culprit: Keeper Kevin

Bicycle Kick · Padded Jersey · Left Footed · Braided Hair · Loud Whistle

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

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY SNOOPER DOES NOT WEAR GRIP GLOVES"

2 × 7 = 14 (T) · 11 × 3 = 33 (H) · 10 × 1 = 10 (V) · 10 × 10 = 100 (L) · 8 × 8 = 64 (D) · 5 × 8 = 40 (Y) · 6 × 11 = 66 (G) · 7 × 4 = 28 (R) · 4 × 9 = 36 (W) · 2 × 10 = 20 (A) · 9 × 1 = 9 (P) · 12 × 1 = 12 (K) · 7 × 8 = 56 (S) · 5 × 1 = 5 (I) · 4 × 11 = 44 (E) · 1 × 7 = 7 (N) · 8 × 10 = 80 (O)

Clue 2 (Rounding): "THE WITNESS SAW A LEFT FOOTED KICKER"

Round 4,263 to the nearest hundred = 4300 (T) · Round 73 to the nearest ten = 70 (R) · Round 8,952 to the nearest thousand = 9000 (E) · Round 51 to the nearest ten = 50 (O) · Round 2,934 to the nearest hundred = 2900 (D) · Round 2,319 to the nearest hundred = 2300 (H) · Round 2,183 to the nearest thousand = 2000 (A) · Round 23 to the nearest ten = 20 (C) · Round 177 to the nearest hundred = 200 (F) · Round 896 to the nearest hundred = 900 (S) · Round 427 to the nearest ten = 430 (I) · Round 88 to the nearest ten = 90 (L) · Round 113 to the nearest ten = 110 (W) · Round 370 to the nearest ten = 370 (N) · Round 4,991 to the nearest thousand = 5000 (K)

Clue 3 (Subtraction): "THE GOALIE USED A LOUD WHISTLE"

5318 - 3473 = 1845 (T) · 3027 - 362 = 2665 (L) · 12787 - 5000 = 7787 (G) · 6347 - 3046 = 3301 (U) · 8442 - 418 = 8024 (O) · 6511 - 2023 = 4488 (A) · 6673 - 2494 = 4179 (D) · 9074 - 2961 = 6113 (W) · 4464 - 2478 = 1986 (H) · 4554 - 1576 = 2978 (I) · 11410 - 2871 = 8539 (E) · 10283 - 4813 = 5470 (S)

Clue 4 (Addition): "THE DETECTIVE FOUND BRAIDED HAIR"

1960 + 839 = 2799 (T) · 1477 + 2509 = 3986 (N) · 3822 + 6040 = 9862 (V) · 986 + 2115 = 3101 (B) · 2321 + 3177 = 5498 (F) · 1711 + 2266 = 3977 (E) · 1201 + 930 = 2131 (I) · 6158 + 2707 = 8865 (U) · 4949 + 4454 = 9403 (H) · 3070 + 3251 = 6321 (R) · 3854 + 4076 = 7930 (D) · 2653 + 1264 = 3917 (O) · 2206 + 1641 = 3847 (C) · 5030 + 2829 = 7859 (A)

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

60 ÷ 5 = 12 · 20 ÷ 4 = 5 · 30 ÷ 10 = 3 · 4 ÷ 4 = 1 · 49 ÷ 7 = 7 · 54 ÷ 9 = 6 · 50 ÷ 5 = 10 · 6 ÷ 3 = 2 · 81 ÷ 9 = 9 · 4 ÷ 1 = 4 · 24 ÷ 3 = 8