The Golden Trophy Mystery

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

Detective: _____ **Date:** _____

Just hours before the championship final at Starlight Soccer Academy, the shiny Golden Trophy vanished from the display case! Someone snuck into the clubhouse and snatched it. Coach Cruz needs your math skills to figure out who took the trophy 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

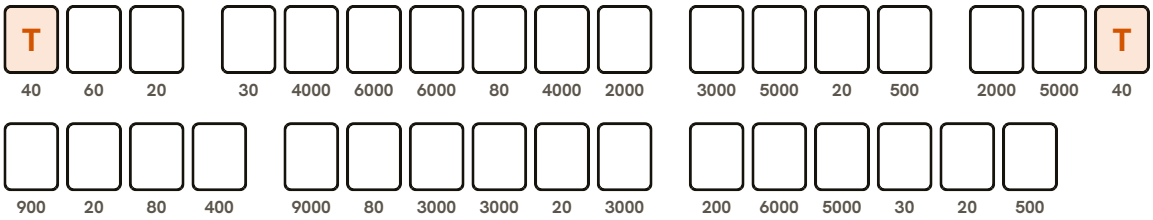
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	FAVORITE GEAR	DOMINANT FOOT	HAIRSTYLE	WEAKNESS
Cristiano Ronaldo	Rainbow Flick	Neon Cleats	Right Footed	Spiked Hair	Slippery Grass
Rose Lavelle	Rocket Volley	Shin Guards	Left Footed	Spiked Hair	Bright Floodlights
Marta	Rainbow Flick	Neon Cleats	Right Footed	Curly Hair	Loud Whistles
Christine Sinclair	Rocket Volley	Padded Gloves	Left Footed	Braided Hair	Bright Floodlights
Sam Kerr	Bicycle Kick	Shin Guards	Left Footed	Curly Hair	Loud Whistles
Pedri	Power Kick	Shin Guards	Left Footed	Braided Hair	Bright Floodlights
Kevin De Bruyne	Rainbow Flick	Neon Cleats	Right Footed	Braided Hair	Bright Floodlights
Wendie Renard	Rocket Volley	Striped Socks	Left Footed	Curly Hair	Bright Floodlights
Aitana Bonmati	Rocket Volley	Padded Gloves	Right Footed	Spiked Hair	Bright Floodlights
Son Heungmin	Curve Shot	Striped Socks	Right Footed	Spiked Hair	Bright Floodlights
Alex Morgan	Bicycle Kick	Striped Socks	Left Footed	Braided Hair	Loud Whistles
Erling Haaland	Rocket Volley	Padded Gloves	Right Footed	Curly Hair	Loud Whistles
Alexia Putellas	Rainbow Flick	Padded Gloves	Right Footed	Spiked Hair	Bright Floodlights
Marcus Rashford	Curve Shot	Shin Guards	Right Footed	Spiked Hair	Slippery Grass
Phil Foden	Rocket Volley	Neon Cleats	Right Footed	Spiked Hair	Bright Floodlights
Sophia Smith	Rocket Volley	Captain Armband	Right Footed	Spiked Hair	Bright Floodlights
Trinity Rodman	Curve Shot	Striped Socks	Right Footed	Curly Hair	Loud Whistles
Megan Rapinoe	Bicycle Kick	Padded Gloves	Right Footed	Braided Hair	Bright Floodlights
Bukayo Saka	Power Kick	Neon Cleats	Right Footed	Curly Hair	Bright Floodlights
Lionel Messi	Curve Shot	Shin Guards	Right Footed	Spiked Hair	Bright Floodlights
Kylian Mbappe	Rainbow Flick	Padded Gloves	Right Footed	Curly Hair	Loud Whistles

CLUE 1 Rounding

> The stadium digital scoreboard only displays attendance rounded to the nearest hundred, giving us our first lead on the thief.

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



Round 37 to the nearest ten ☐ → **T**

Round 17 to the nearest ten ☐ → **E**

Round 934 to the nearest hundred ☐ → **W**

Round 5,069 to the nearest thousand ☐ → **O**

Round 57 to the nearest ten ☐ → **H**

Round 83 to the nearest ten ☐ → **A**

Round 172 to the nearest hundred ☐ → **G**

Round 5,737 to the nearest thousand ☐ → **L**

Round 34 to the nearest ten ☐ → **V**

Round 1,970 to the nearest thousand ☐ → **N**

Round 3,662 to the nearest thousand ☐ → **I**

Round 8,693 to the nearest thousand ☐ → **P**

Round 508 to the nearest hundred ☐ → **S**

Round 3,211 to the nearest thousand ☐ → **D**

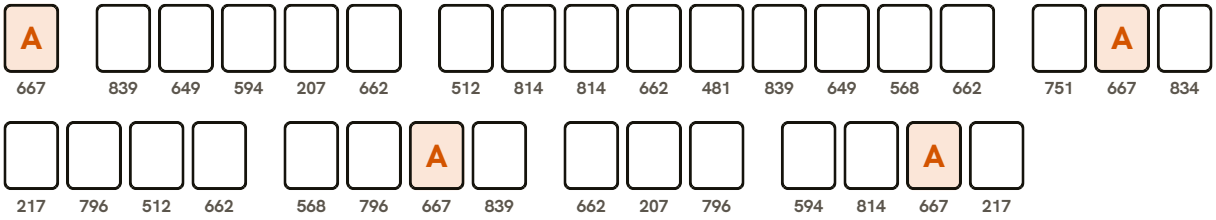
Round 380 to the nearest hundred ☐ → **R**

Scratch space:

CLUE 2 Addition

Coach Cruz gathers all the extra soccer balls collected after practice to tally up the security footage clues.

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



343 + 324 = ☐ → A

223 + 258 = ☐ → P

302 + 449 = ☐ → W

226 + 342 = ☐ → N

269 + 545 = ☐ → O

389 + 273 = ☐ → T

312 + 200 = ☐ → F

309 + 525 = ☐ → S

255 + 339 = ☐ → G

555 + 284 = ☐ → R

94 + 113 = ☐ → H

135 + 82 = ☐ → L

393 + 403 = ☐ → E

322 + 327 = ☐ → I

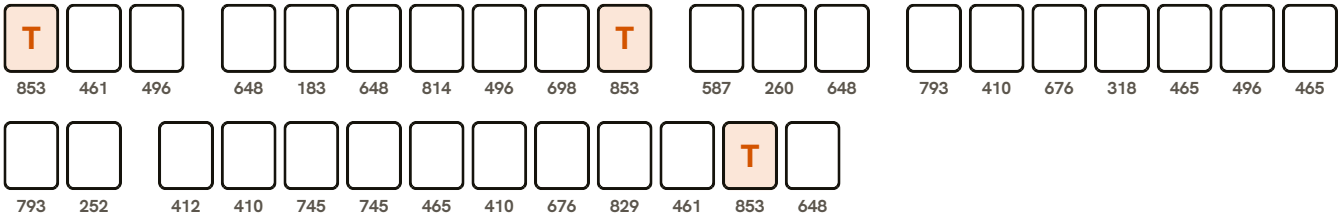
Scratch space:

CLUE 3

Subtraction

Detective Sam subtracts the damaged practice cones from the gear room total to see where the suspect ran.

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



1126 - 273 = ☐ → T

275 - 92 = ☐ → U

802 - 390 = ☐ → F

1048 - 400 = ☐ → S

860 - 399 = ☐ → H

844 - 15 = ☐ → G

842 - 377 = ☐ → D

445 - 185 = ☐ → A

828 - 35 = ☐ → B

909 - 322 = ☐ → W

873 - 197 = ☐ → I

1040 - 342 = ☐ → C

325 - 7 = ☐ → N

298 - 46 = ☐ → Y

796 - 300 = ☐ → E

752 - 7 = ☐ → O

659 - 249 = ☐ → L

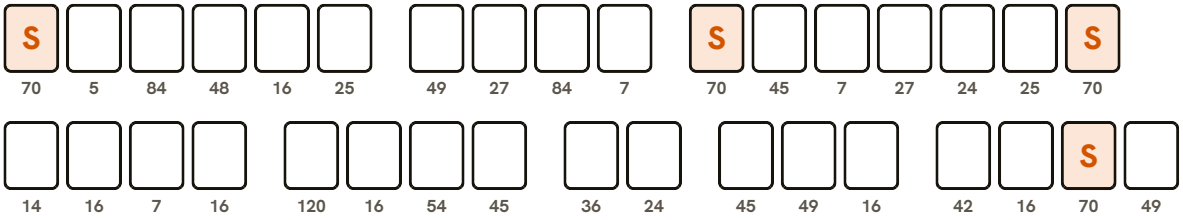
1069 - 255 = ☐ → P

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The assistant coach counts the cleats stored in equal rows inside the locker room to find missing gear.

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



7 × 10 = ☐ → S

7 × 1 = ☐ → R

3 × 12 = ☐ → O

5 × 9 = ☐ → T

7 × 6 = ☐ → M

5 × 5 = ☐ → D

8 × 2 = ☐ → E

7 × 12 = ☐ → I

3 × 9 = ☐ → A

7 × 7 = ☐ → H

10 × 12 = ☐ → L

1 × 5 = ☐ → P

3 × 8 = ☐ → N

2 × 7 = ☐ → W

4 × 12 = ☐ → K

6 × 9 = ☐ → F

Scratch space:

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

> The referee divides the orange slices equally among the drill groups while taking suspect statements.

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:

144 ÷ 12 = ☐ | 63 ÷ 7 = ☐ | 44 ÷ 11 = ☐ | 4 ÷ 4 = ☐ | 50 ÷ 5 = ☐

45 ÷ 9 = ☐ | 72 ÷ 12 = ☐ | 24 ÷ 3 = ☐ | 33 ÷ 11 = ☐ | 88 ÷ 8 = ☐

49 ÷ 7 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain scared the defense with a bicycle kick, then adjusted a captain armband.
2. The villain used a curve shot to bend the ball, then snapped on shiny shin guards.
3. The villain used a curve shot to bend the ball, then pulled on padded gloves.
4. The villain struck a rocket volley across the field, then adjusted a captain armband.
5. The villain showed off a rainbow flick over the fence, then laced up neon cleats.
6. The villain scared the defense with a bicycle kick, then pulled up striped socks.
7. The villain blasted a power kick through the gate, then pulled up striped socks.
8. The villain scared the defense with a bicycle kick, then snapped on shiny shin guards.
9. The villain struck a rocket volley across the field, then laced up neon cleats.
10. The villain showed off a rainbow flick over the fence, then adjusted a captain armband.
11. The villain struck a rocket volley across the field, then pulled on padded gloves.
12. The villain used a curve shot to bend the ball, then pulled up striped socks.

TEACHER / PARENT

Answer Key

The Golden Trophy Mystery

Culprit: Lionel Messi

Curve Shot · Shin Guards · Right Footed · Spiked Hair · Bright Floodlights

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT WEAR PADDED GLOVES"

Round 37 to the nearest ten = 40 (T) · Round 17 to the nearest ten = 20 (E) · Round 934 to the nearest hundred = 900 (W) · Round 5,069 to the nearest thousand = 5000 (O) · Round 57 to the nearest ten = 60 (H) · Round 83 to the nearest ten = 80 (A) · Round 172 to the nearest hundred = 200 (G) · Round 5,737 to the nearest thousand = 6000 (L) · Round 34 to the nearest ten = 30 (V) · Round 1,970 to the nearest thousand = 2000 (N) · Round 3,662 to the nearest thousand = 4000 (I) · Round 8,693 to the nearest thousand = 9000 (P) · Round 508 to the nearest hundred = 500 (S) · Round 3,211 to the nearest thousand = 3000 (D) · Round 380 to the nearest hundred = 400 (R)

Clue 2 (Addition): "A RIGHT FOOTPRINT WAS LEFT NEAR THE GOAL"

343 + 324 = 667 (A) · 223 + 258 = 481 (P) · 302 + 449 = 751 (W) · 226 + 342 = 568 (N) · 269 + 545 = 814 (O) · 389 + 273 = 662 (T) · 312 + 200 = 512 (F) · 309 + 525 = 834 (S) · 255 + 339 = 594 (G) · 555 + 284 = 839 (R) · 94 + 113 = 207 (H) · 135 + 82 = 217 (L) · 393 + 403 = 796 (E) · 322 + 327 = 649 (I)

Clue 3 (Subtraction): "THE SUSPECT WAS BLINDED BY FLOODLIGHTS"

1126 - 273 = 853 (T) · 275 - 92 = 183 (U) · 802 - 390 = 412 (F) · 1048 - 400 = 648 (S) · 860 - 399 = 461 (H) · 844 - 15 = 829 (G) · 842 - 377 = 465 (D) · 445 - 185 = 260 (A) · 828 - 35 = 793 (B) · 909 - 322 = 587 (W) · 873 - 197 = 676 (I) · 1040 - 342 = 698 (C) · 325 - 7 = 318 (N) · 298 - 46 = 252 (Y) · 796 - 300 = 496 (E) · 752 - 7 = 745 (O) · 659 - 249 = 410 (L) · 1069 - 255 = 814 (P)

Clue 4 (Multiplication facts (1-12)): "SPIKED HAIR STRANDS WERE LEFT ON THE MESH"

7 × 10 = 70 (S) · 7 × 1 = 7 (R) · 3 × 12 = 36 (O) · 5 × 9 = 45 (T) · 7 × 6 = 42 (M) · 5 × 5 = 25 (D) · 8 × 2 = 16 (E) · 7 × 12 = 84 (I) · 3 × 9 = 27 (A) · 7 × 7 = 49 (H) · 10 × 12 = 120 (L) · 1 × 5 = 5 (P) · 3 × 8 = 24 (N) · 2 × 7 = 14 (W) · 4 × 12 = 48 (K) · 6 × 9 = 54 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Lionel Messi

144 ÷ 12 = 12 · 63 ÷ 7 = 9 · 44 ÷ 11 = 4 · 4 ÷ 4 = 1 · 50 ÷ 5 = 10 · 45 ÷ 9 = 5 · 72 ÷ 12 = 6 · 24 ÷ 3 = 8 · 33 ÷ 11 = 3 · 88 ÷ 8 = 11 · 49 ÷ 7 = 7