The Great Soccer Stadium Mystery

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

Detective: _____ **Date:** _____

The Golden Soccer Trophy has vanished right before the big tournament! The Pitch Phantom sneaked onto the turf and took it. It is up to you to solve the math clues and save the big game!

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 The Pitch Phantom is _____

Possible suspects

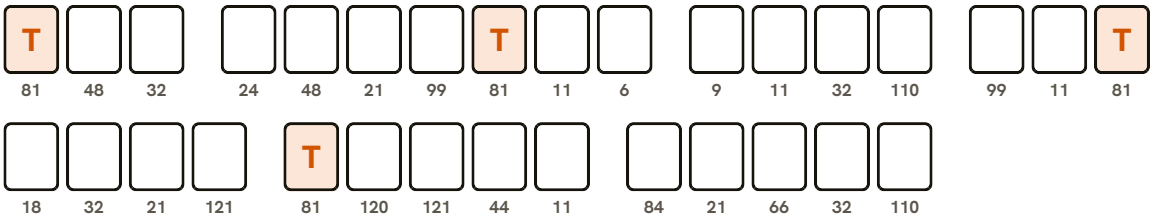
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SOCCER SKILL	SPECIAL GEAR	KICKING FOOT	HAIR STYLE	DISTRACTION
Mohamed	curved pass	golden cleats	left footed	green mohawk	squeaky whistles
Robert	power slide	neon shin guards	right footed	green mohawk	wet grass
Chloe	curved pass	grip gloves	left footed	orange spikes	shiny trophies
Sophia	bicycle kick	turbo laces	right footed	green mohawk	squeaky whistles
Harry	super header	magnetic socks	left footed	green mohawk	squeaky whistles
Cristiano	super header	magnetic socks	right footed	green mohawk	squeaky whistles
Rose	power slide	grip gloves	right footed	blue headband	shiny trophies
Megan	super header	grip gloves	left footed	blue headband	squeaky whistles
Antoine	super header	neon shin guards	right footed	orange spikes	shiny trophies
Luka	super header	golden cleats	right footed	orange spikes	squeaky whistles
Marcus	bicycle kick	neon shin guards	left footed	orange spikes	wet grass
Marta	super header	golden cleats	right footed	green mohawk	squeaky whistles
Alex	goalie leap	golden cleats	right footed	green mohawk	shiny trophies
Jude	bicycle kick	turbo laces	left footed	orange spikes	wet grass
Lionel	power slide	golden cleats	left footed	orange spikes	squeaky whistles
Neymar	bicycle kick	neon shin guards	right footed	green mohawk	squeaky whistles
Sam	goalie leap	neon shin guards	right footed	blue headband	squeaky whistles
Bukayo	goalie leap	turbo laces	left footed	orange spikes	shiny trophies
Sonny	goalie leap	magnetic socks	left footed	blue headband	squeaky whistles
Bruno	power slide	grip gloves	right footed	green mohawk	squeaky whistles
Kevin	power slide	neon shin guards	left footed	blue headband	wet grass

CLUE 1 Multiplication facts (1-12)

> Coach Gary set up soccer cones in perfect rows on the field. Multiply the rows by the cones in each row to find the clue.

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



9 × 9 = ☐ → T

6 × 1 = ☐ → M

12 × 4 = ☐ → H

11 × 10 = ☐ → S

1 × 11 = ☐ → O

6 × 3 = ☐ → W

7 × 3 = ☐ → A

7 × 12 = ☐ → L

11 × 11 = ☐ → R

4 × 11 = ☐ → B

9 × 1 = ☐ → D

3 × 8 = ☐ → P

6 × 11 = ☐ → C

11 × 9 = ☐ → N

4 × 8 = ☐ → E

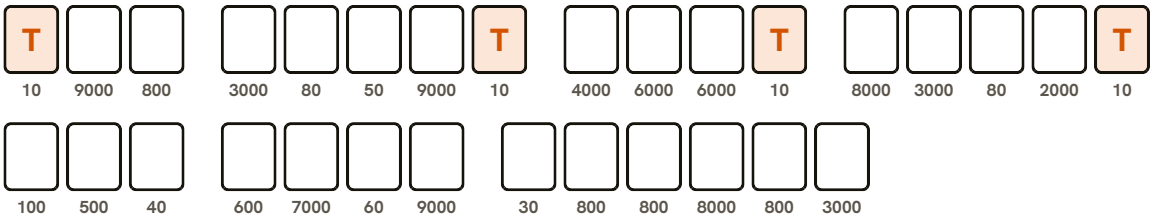
12 × 10 = ☐ → U

Scratch space:

CLUE 2 Place value

> The electronic scoreboard flashed mysterious numbers in the tens and ones places. Group the digits to unlock the next hint.

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



What is the value of the 1 in 819? ☐ → **T**

What is the value of the 1 in 7,143? ☐ → **W**

What is the value of the 7 in 7,685? ☐ → **U**

What is the value of the 3 in 5,532? ☐ → **D**

What is the value of the 6 in 265? ☐ → **C**

What is the value of the 2 in 62,994? ☐ → **N**

What is the value of the 6 in 8,607? ☐ → **M**

What is the value of the 8 in 684? ☐ → **I**

What is the value of the 3 in 3,244? ☐ → **R**

What is the value of the 8 in 8,553? ☐ → **P**

What is the value of the 9 in 79,117? ☐ → **H**

What is the value of the 5 in 1,154? ☐ → **G**

What is the value of the 5 in 549? ☐ → **A**

What is the value of the 8 in 1,833? ☐ → **E**

What is the value of the 6 in 16,982? ☐ → **O**

What is the value of the 4 in 747? ☐ → **S**

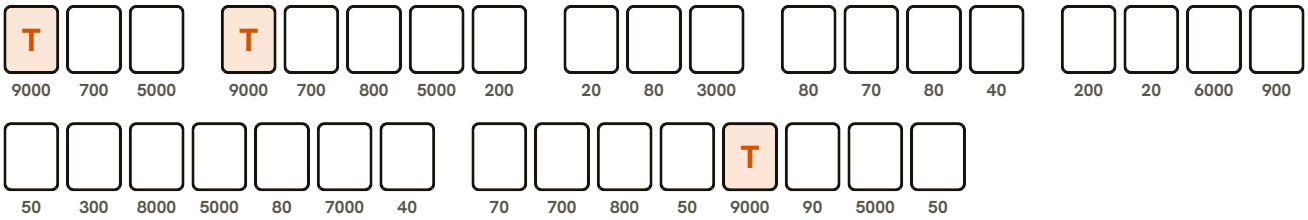
What is the value of the 4 in 24,365? ☐ → **F**

Scratch space:

CLUE 3 Rounding

> A speed radar measured a kick but it only shows rounded numbers. Round the shot speed to the nearest ten to find the truth.

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



Round 8,839 to the nearest thousand ☐ → T

Round 81 to the nearest ten ☐ → A

Round 8,223 to the nearest thousand ☐ → U

Round 16 to the nearest ten ☐ → R

Round 5,035 to the nearest thousand ☐ → E

Round 740 to the nearest hundred ☐ → H

Round 180 to the nearest hundred ☐ → F

Round 38 to the nearest ten ☐ → Y

Round 897 to the nearest hundred ☐ → M

Round 316 to the nearest hundred ☐ → Q

Round 3,453 to the nearest thousand ☐ → N

Round 47 to the nearest ten ☐ → S

Round 86 to the nearest ten ☐ → L

Round 7,239 to the nearest thousand ☐ → K

Round 6,423 to the nearest thousand ☐ → O

Round 71 to the nearest ten ☐ → W

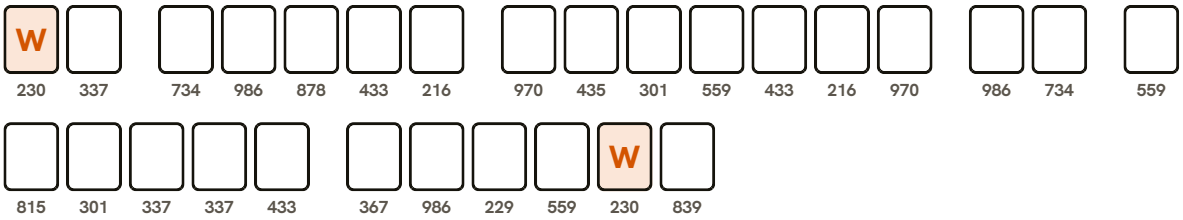
Round 762 to the nearest hundred ☐ → I

Scratch space:

CLUE 4 Addition

> We need to add up all the lost soccer balls found in the locker room. Total up the boxes of gear to reveal the suspect.

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



139 + 91 = ☐ → W	137 + 296 = ☐ → N	110 + 191 = ☐ → R
258 + 581 = ☐ → K	492 + 478 = ☐ → S	371 + 363 = ☐ → F
292 + 143 = ☐ → T	533 + 282 = ☐ → G	144 + 72 = ☐ → D
135 + 94 = ☐ → H	208 + 159 = ☐ → M	405 + 581 = ☐ → O
184 + 153 = ☐ → E	290 + 269 = ☐ → A	524 + 354 = ☐ → U

Scratch space:

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

> We have a pile of shiny medals to split evenly among the soccer players. Divide them up to find 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:

144 ÷ 12 = ☐ | 20 ÷ 10 = ☐ | 66 ÷ 11 = ☐ | 24 ÷ 8 = ☐ | 22 ÷ 2 = ☐

8 ÷ 8 = ☐ | 70 ÷ 10 = ☐ | 8 ÷ 2 = ☐ | 108 ÷ 12 = ☐ | 20 ÷ 4 = ☐

40 ÷ 4 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain leaps like a giant goalie, then glows with neon shin guards.
2. The villain performs a massive bicycle kick, then glows with neon shin guards.
3. The villain makes a curved pass, then runs fast with magnetic socks.
4. The villain performs a massive bicycle kick, then catches the ball with grip gloves.
5. The villain scores a super header, then catches the ball with grip gloves.
6. The villain scores a super header, then flashes bright golden cleats.
7. The villain leaps like a giant goalie, then runs fast with magnetic socks.
8. The villain does a power slide, then catches the ball with grip gloves.
9. The villain does a power slide, then speeds up with turbo laces.
10. The villain makes a curved pass, then glows with neon shin guards.
11. The villain makes a curved pass, then catches the ball with grip gloves.
12. The villain scores a super header, then runs fast with magnetic socks.

TEACHER / PARENT

Answer Key

The Great Soccer Stadium Mystery

Culprit: Bruno

power slide · grip gloves · right footed · green mohawk · squeaky whistles

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE PHANTOM DOES NOT WEAR TURBO LACES"

9 × 9 = 81 (T) · 6 × 1 = 6 (M) · 12 × 4 = 48 (H) · 11 × 10 = 110 (S) · 1 × 11 = 11 (O) · 6 × 3 = 18 (W) · 7 × 3 = 21 (A) · 7 × 12 = 84 (L) · 11 × 11 = 121 (R) · 4 × 11 = 44 (B) · 9 × 1 = 9 (D) · 3 × 8 = 24 (P) · 6 × 11 = 66 (C) · 11 × 9 = 99 (N) · 4 × 8 = 32 (E) · 12 × 10 = 120 (U)

Clue 2 (Place value): "THE RIGHT FOOT PRINT WAS MUCH DEEPER"

What is the value of the 1 in 819? = 10 (T) · What is the value of the 1 in 7,143? = 100 (W) · What is the value of the 7 in 7,685? = 7000 (U) · What is the value of the 3 in 5,532? = 30 (D) · What is the value of the 6 in 265? = 60 (C) · What is the value of the 2 in 62,994? = 2000 (N) · What is the value of the 6 in 8,607? = 600 (M) · What is the value of the 8 in 684? = 80 (I) · What is the value of the 3 in 3,244? = 3000 (R) · What is the value of the 8 in 8,553? = 8000 (P) · What is the value of the 9 in 79,117? = 9000 (H) · What is the value of the 5 in 1,154? = 50 (G) · What is the value of the 5 in 549? = 500 (A) · What is the value of the 8 in 1,833? = 800 (E) · What is the value of the 6 in 16,982? = 6000 (O) · What is the value of the 4 in 747? = 40 (S) · What is the value of the 4 in 24,365? = 4000 (F)

Clue 3 (Rounding): "THE THIEF RAN AWAY FROM SQUEAKY WHISTLES"

Round 8,839 to the nearest thousand = 9000 (T) · Round 81 to the nearest ten = 80 (A) · Round 8,223 to the nearest thousand = 8000 (U) · Round 16 to the nearest ten = 20 (R) · Round 5,035 to the nearest thousand = 5000 (E) · Round 740 to the nearest hundred = 700 (H) · Round 180 to the nearest hundred = 200 (F) · Round 38 to the nearest ten = 40 (Y) · Round 897 to the nearest hundred = 900 (M) · Round 316 to the nearest hundred = 300 (Q) · Round 3,453 to the nearest thousand = 3000 (N) · Round 47 to the nearest ten = 50 (S) · Round 86 to the nearest ten = 90 (L) · Round 7,239 to the nearest thousand = 7000 (K) · Round 6,423 to the nearest thousand = 6000 (O) · Round 71 to the nearest ten = 70 (W) · Round 762 to the nearest hundred = 800 (I)

Clue 4 (Addition): "WE FOUND STRANDS OF A GREEN MOHAWK"

139 + 91 = 230 (W) · 137 + 296 = 433 (N) · 110 + 191 = 301 (R) · 258 + 581 = 839 (K) · 492 + 478 = 970 (S) · 371 + 363 = 734 (F) · 292 + 143 = 435 (T) · 533 + 282 = 815 (G) · 144 + 72 = 216 (D) · 135 + 94 = 229 (H) · 208 + 159 = 367 (M) · 405 + 581 = 986 (O) · 184 + 153 = 337 (E) · 290 + 269 = 559 (A) · 524 + 354 = 878 (U)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Bruno

144 ÷ 12 = 12 · 20 ÷ 10 = 2 · 66 ÷ 11 = 6 · 24 ÷ 8 = 3 · 22 ÷ 2 = 11 · 8 ÷ 8 = 1 · 70 ÷ 10 = 7 · 8 ÷ 2 = 4 · 108 ÷ 12 = 9 · 20 ÷ 4 = 5 · 40 ÷ 4 = 10