



The Mystery of the Missing Championship Trophy

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

Detective: _____ **Date:** _____

Someone snatched the Golden Champions Trophy right out of the referee locker room before the big tournament game. Inspect the field evidence and solve the math clues to identify the thief.

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	PRIMARY SPORT	WARM-UP DRILL	DOMINANT HAND	HAIR COLOR	GEAR TROUBLE
Caitlin Clark	Tennis	Spiral Pass	Right Handed	Neon Green	Slippery Grass
Derrick Henry	Football	Spiral Pass	Left Handed	Bright Orange	Deflated Ball
Travis Kelce	Rugby	Cone Shuttle	Right Handed	Jet Black	Deflated Ball
Christian Pulisic	Football	Tire Hop	Left Handed	Jet Black	Broken Strings
Serena Williams	Football	Serve Rally	Right Handed	Bright Orange	Deflated Ball
Justin Jefferson	Tennis	Tire Hop	Right Handed	Bright Orange	Broken Strings
Patrick Mahomes	Football	Spiral Pass	Left Handed	Jet Black	Deflated Ball
Cristiano Ronaldo	Tennis	Power Sprint	Right Handed	Neon Green	Slippery Grass
Josh Allen	Rugby	Cone Shuttle	Right Handed	Bright Orange	Broken Strings
Carlos Alcaraz	Soccer	Spiral Pass	Left Handed	Jet Black	Broken Strings
Coco Gauff	Rugby	Power Sprint	Right Handed	Bright Orange	Deflated Ball
Lamar Jackson	Track	Tire Hop	Right Handed	Bright Orange	Deflated Ball
Megan Rapinoe	Rugby	Spiral Pass	Right Handed	Neon Green	Broken Strings
Tyreek Hill	Track	Tire Hop	Left Handed	Neon Green	Slippery Grass
Rafael Nadal	Track	Serve Rally	Right Handed	Bright Orange	Deflated Ball
Lionel Messi	Track	Power Sprint	Right Handed	Jet Black	Broken Strings
Venus Williams	Soccer	Tire Hop	Right Handed	Bright Orange	Deflated Ball
Roger Federer	Tennis	Tire Hop	Right Handed	Bright Orange	Deflated Ball
Alex Morgan	Soccer	Cone Shuttle	Right Handed	Bright Orange	Slippery Grass
Novak Djokovic	Football	Serve Rally	Left Handed	Neon Green	Deflated Ball
Sam Kerr	Track	Spiral Pass	Left Handed	Jet Black	Broken Strings

Rounding

The stadium scoreboard clock rounded the escape time to reveal a clue.

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

A number line from 0 to 10,000. The line is marked with boxes for numbers and their place values. The number 60 is highlighted in orange.

Number	Place Value
60	Tens
50	Tens
30	Tens
400	Hundreds
700	Hundreds
900	Hundreds
900	Hundreds
70	Tens
700	Hundreds
80	Tens
7000	Thousands
4000	Thousands
30	Tens
6000	Thousands
80	Tens
4000	Thousands
60	Tens
7000	Thousands
4000	Thousands
6000	Thousands
30	Tens
8000	Thousands
400	Hundreds
30	Tens
8000	Thousands
70	Tens
900	Hundreds
900	Hundreds
9000	Thousands
7000	Thousands
8000	Thousands
700	Hundreds
900	Hundreds
900	Hundreds
6000	Thousands

Round 60 to the nearest ten $\rightarrow$ **T**

Round 430 to the nearest hundred → **V**

Round 723 to the nearest hundred $\rightarrow$

Round 8,987 to the nearest thousand → **Y**

Round 7,621 to the nearest thousand $\rightarrow$ **R**

Round 80 to the nearest ten $\rightarrow$ **N**

Round 6,056 to the nearest thousand → **S**

Round 3,570 to the nearest thousand $\rightarrow$ ☒

Round 919 to the nearest hundred → **L**

Round 6,919 to the nearest thousand → **D**

Round 46 to the nearest ten $\rightarrow$ **H**

Round 30 to the nearest ten $\rightarrow$ **E**

Round 72 to the nearest ten $\rightarrow$ **A**

Scratch space:

CLUE 2
Multiplication facts (1-12)

Coach Marcus counted equal rows of practice cones left near the scene.

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

T									T									
44	28	121	42	70	42	7	121	60	44	132	8	42	42	121	121	35		
					T								T					
70	42	5	35	14	44	28	121	5	108	108	5	14	28	44	28	8	35	56

$4 \times 11 = \square \rightarrow \text{**T**}$

$1 \times 5 = \square \rightarrow \text{**I**}$

$12 \times 11 = \square \rightarrow \text{**W**}$

$7 \times 6 = \square \rightarrow \text{**S**}$

$8 \times 7 = \square \rightarrow \text{**D**}$

$11 \times 11 = \square \rightarrow \text{**E**}$

$7 \times 2 = \square \rightarrow \text{**G**}$

$7 \times 4 = \square \rightarrow \text{**H**}$

$9 \times 12 = \square \rightarrow \text{**R**}$

$2 \times 4 = \square \rightarrow \text{**A**}$

$5 \times 7 = \square \rightarrow \text{**N**}$

$10 \times 7 = \square \rightarrow \text{**U**}$

$1 \times 7 = \square \rightarrow \text{**P**}$

$5 \times 12 = \square \rightarrow \text{**C**}$

Scratch space:

CLUE 3 Word problems

The equipment manager tallied up total gear items moved before the game.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

D							D				
65	29	32	56	28	22	29	65	48	28	56	56

.

Coach Marcus found 7 tennis rackets yesterday and 58 more today. How many tennis rackets in all?

Answer: → **D**

Coach Marcus lined up 4 rows of 8 football helmets. How many football helmets in all?

Answer: → **F**

There were 54 football helmets. 26 were used up. How many football helmets are left?

Answer: → **A**

Coach Marcus lined up 2 rows of 11 sports cones. How many sports cones in all?

Answer: → **T**

There were 58 water bottles. 29 were used up. How many water bottles are left?

Answer: → **E**

Coach Marcus lined up 12 rows of 4 tennis rackets. How many tennis rackets in all?

Answer: → **B**

Coach Marcus lined up 7 rows of 8 soccer balls. How many soccer balls in all?

Answer: → **L**

Scratch space:

CLUE 4 Place value

The locker room keypad required entering place values to open the vault.

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

A									A					A		
70	1000	3000	700	800	30	9000	8000	3000	70	500	800	100	30	70	700	3000
	A															
7000	70	600	20	100	6000	9000	8000	500	9000	30	100	20	8000	200	80	

What is the value of the 7 in 1,570? → **A**

What is the value of the 9 in 9,671? → **T**

What is the value of the 6 in 76,043? → **F**

What is the value of the 8 in 58,322? → **O**

What is the value of the 3 in 237? → **H**

What is the value of the 1 in 198? → **E**

What is the value of the 6 in 618? → **S**

What is the value of the 7 in 87,835? → **W**

What is the value of the 3 in 3,580? → **R**

What is the value of the 7 in 716? → **I**

What is the value of the 2 in 6,924? → **L**

What is the value of the 8 in 9,083? → **K**

What is the value of the 8 in 877? → **G**

What is the value of the 1 in 71,527? → **B**

What is the value of the 5 in 6,537? → **N**

What is the value of the 2 in 3,241? → **C**

Scratch space:

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

The referee divided leftover practice balls into equal bags to find a hidden note.

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:

$100 \div 10 = \boxed{}$

$5 \div 5 = \boxed{}$

$54 \div 6 = \boxed{}$

$22 \div 2 = \boxed{}$

$21 \div 7 = \boxed{}$

$20 \div 5 = \boxed{}$

$18 \div 3 = \boxed{}$

$16 \div 2 = \boxed{}$

$15 \div 3 = \boxed{}$

$49 \div 7 = \boxed{}$

$14 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain served tennis aces over the net, then jumped through tire hops.
2. The villain served tennis aces over the net, then mastered the spiral pass.
3. The villain threw long football spirals, then practiced the cone shuttle.
4. The villain kicked soccer balls across the field, then dashed the power sprint.
5. The villain threw long football spirals, then jumped through tire hops.
6. The villain served tennis aces over the net, then dashed the power sprint.
7. The villain ran rugby drills through the mud, then jumped through tire hops.
8. The villain sprinted down the track lane, then drilled the serve rally.
9. The villain ran rugby drills through the mud, then dashed the power sprint.
10. The villain sprinted down the track lane, then jumped through tire hops.
11. The villain ran rugby drills through the mud, then mastered the spiral pass.
12. The villain kicked soccer balls across the field, then jumped through tire hops.

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Venus Williams

Soccer · Tire Hop · Right Handed · Bright Orange · Deflated Ball

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT DO SERVE RALLY DRILLS"

Round 60 to the nearest ten = 60 (T) · Round 430 to the nearest hundred = 400 (V) · Round 723 to the nearest hundred = 700 (I) · Round 8,987 to the nearest thousand = 9000 (Y) · Round 7,621 to the nearest thousand = 8000 (R) · Round 80 to the nearest ten = 80 (N) · Round 6,056 to the nearest thousand = 6000 (S) · Round 3,570 to the nearest thousand = 4000 (O) · Round 919 to the nearest hundred = 900 (L) · Round 6,919 to the nearest thousand = 7000 (D) · Round 46 to the nearest ten = 50 (H) · Round 30 to the nearest ten = 30 (E) · Round 72 to the nearest ten = 70 (A)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT WAS SEEN USING THEIR RIGHT HAND"

$4 \times 11 = 44$ (T) · $1 \times 5 = 5$ (I) · $12 \times 11 = 132$ (W) · $7 \times 6 = 42$ (S) · $8 \times 7 = 56$ (D) · $11 \times 11 = 121$ (E) · $7 \times 2 = 14$ (G) · $7 \times 4 = 28$ (H) · $9 \times 12 = 108$ (R) · $2 \times 4 = 8$ (A) · $5 \times 7 = 35$ (N) · $10 \times 7 = 70$ (U) · $1 \times 7 = 7$ (P) · $5 \times 12 = 60$ (C)

Clue 3 (Word problems): "DEFLATED BALL"

Coach Marcus found 7 tennis rackets yesterday and 58 more today. How many tennis rackets in all? = 65 (D) · Coach Marcus lined up 4 rows of 8 football helmets. How many football helmets in all? = 32 (F) · There were 54 football helmets. 26 were used up. How many football helmets are left? = 28 (A) · Coach Marcus lined up 2 rows of 11 sports cones. How many sports cones in all? = 22 (T) · There were 58 water bottles. 29 were used up. How many water bottles are left? = 29 (E) · Coach Marcus lined up 12 rows of 4 tennis rackets. How many tennis rackets in all? = 48 (B) · Coach Marcus lined up 7 rows of 8 soccer balls. How many soccer balls in all? = 56 (L)

Clue 4 (Place value): "A BRIGHT ORANGE HAIR WAS LEFT ON THE LOCK"

What is the value of the 7 in 1,570? = 70 (A) · What is the value of the 9 in 9,671? = 9000 (T) · What is the value of the 6 in 76,043? = 6000 (F) · What is the value of the 8 in 58,322? = 8000 (O) · What is the value of the 3 in 237? = 30 (H) · What is the value of the 1 in 198? = 100 (E) · What is the value of the 6 in 618? = 600 (S) · What is the value of the 7 in 87,835? = 7000 (W) · What is the value of the 3 in 3,580? = 3000 (R) · What is the value of the 7 in 716? = 700 (I) · What is the value of the 2 in 6,924? = 20 (L) · What is the value of the 8 in 9,083? = 80 (K) · What is the value of the 8 in 877? = 800 (G) · What is the value of the 1 in 71,527? = 1000 (B) · What is the value of the 5 in 6,537? = 500 (N) · What is the value of the 2 in 3,241? = 200 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Venus Williams

$100 \div 10 = 10$ · $5 \div 5 = 1$ · $54 \div 6 = 9$ · $22 \div 2 = 11$ · $21 \div 7 = 3$ · $20 \div 5 = 4$ · $18 \div 3 = 6$ · $16 \div 2 = 8$ · $15 \div 3 = 5$ · $49 \div 7 = 7$ · $14 \div 7 = 2$